

RETURN WITH BIDLETTING DATE April 28, 2006ITEM NUMBER 6A

Proposal Submitted By

Name _____

Address _____

City/State _____

Zip Code _____ Telephone Number _____

FEIN Number _____ FAX Number _____

BIDDERS NEED NOT RETURN THE ENTIRE PROPOSAL
 (See instructions inside front cover)
NOTICE TO PROSPECTIVE BIDDERS

This proposal can be used for bidding purposes
 by only those companies that request and receive written
AUTHORIZATION TO BID from IDOT's Central Bureau of
 Construction.
 (SEE INSTRUCTIONS ON THE INSIDE OF COVER)

PROPOSAL COVER SHEET
Illinois Department of Transportation
DIVISION OF AERONAUTICS
AIRPORT Galesburg MunicipalMUNICIPAL DESIGNATION GalesburgCOUNTY DESIGNATION KnoxILLINOIS PROJECT NO. GBG-3433FEDERAL PROJECT NO. 3-17-0047-B8

PLEASE MARK THE APPROPRIATE BOX BELOW:

- A Bid Bond is included.
- A Cashier's Check or a Certified Check is included.

INSTRUCTIONS

ABOUT IDOT PROPOSALS: All proposals issued by IDOT are potential bidding proposals. Each proposal contains all Certifications and Affidavits, a Proposal Signature Sheet and a Proposal Bid Bond required for Prime Contractors to submit a bid after written **Authorization to Bid** has been issued by IDOT’s Central Bureau of Construction.

HOW MANY PROPOSALS SHOULD PROSPECTIVE BIDDERS REQUEST?: Prospective bidders should, prior to submitting their initial request for plans and proposals, determine their needs and request the total number of plans and proposals needed for each item requested. There will be a nonrefundable charge of \$15 for each set of plans and specifications issued.

WHO CAN BID?: Bids will be accepted from only those companies that request and receive written **Authorization to Bid** from IDOT’s Central Bureau of Construction.

WHAT CONSTITUTES WRITTEN AUTHORIZATION TO BID?: When a prospective prime bidder submits a “Request for Proposal Forms and Plans” he/she must indicate at that time which items are being requested For Bidding purposes. Only those items requested For Bidding will be analyzed. After the request has been analyzed, the bidder will be issued a **Proposal Denial and/or Authorization Form**, approved by the Central Bureau of Construction, that indicates which items have been approved For Bidding. If **Authorization to Bid** cannot be approved, the **Proposal Denial and/or Authorization Form** will indicate the reason for denial. If a contractor has requested to bid but has not received a **Proposal Denial and/or Authorization Form**, they should contact the Central Bureau of Construction in advance of the letting date.

WHAT MUST BE INCLUDED WHEN BIDS ARE SUBMITTED?: Bidders need not return the entire proposal when bids are submitted. That portion of the proposal that must be returned includes the following:

1. All documents from the Proposal Cover Sheet through the Proposal Bid Bond
2. Other special documentation and/or information that may be required by the contract special provisions

All proposal documents, including Proposal Guaranty Checks or Proposal Bid Bonds, should be stapled together to prevent loss when bids are processed by IDOT personnel.

ABOUT SUBMITTING BIDS: It is recommended that bidders deliver bids in person to insure they arrive at the proper location prior to the time specified for the receipt of bids. Any bid received at the place of letting after the time specified will not be accepted.

WHO SHOULD BE CALLED IF ASSISTANCE IS NEEDED?

Questions Regarding	Call
Prequalification and/or Authorization to Bid	217/782-3413
Preparation and submittal of bids	217/782-7806
Mailing of plans and proposals	217/782-7806

RETURN WITH BID



PROPOSAL

1. Proposal of _____

Taxpayer Identification Number (Mandatory) _____

for the improvement officially known as:

(a) Galesburg Municipal Airport

(b) The proposed improvement shown in detail on the plans issued by the Department schedule and detail sheets included herein, includes, in general, the following described work:

**Install New Edge Lighting Systems on Runway 3-21 and Runway 10-28 and Their Associated Taxiways;
Construct New Electrical Vault for Airfield Lighting**

TO THE DEPARTMENT OF TRANSPORTATION

2. The plans for the proposed work are those issued by the Department of Transportation to cover the work described above.

The specifications are those prepared by the Department of Transportation, Division of Aeronautics and designated as "Standard Specifications for Construction of Airports," adopted January, 1985, the "Supplemental Specifications and Recurring Special Provisions," adopted July 1, 2004 and the "Special Provisions" thereto, adopted and in effect on the date of invitation for bids.

3. **COMPLETION TIME/LIQUIDATED DAMAGES.** It being understood and agreed that the completion within the time limit is an essential part of the contract, the bidder agrees to complete the work within 150 calendar days, unless additional time is granted by the Engineer in accordance with the provisions of the specifications. In case of failure to complete the work on or before the time named herein, or within such extra time as may have been allowed by extensions, the bidder agrees that the Department of Transportation shall withhold from such sum as may be due him/her under the terms of this contract, the costs, as set forth below, which costs shall be considered and treated not as a penalty but as damages due to the State from the bidder by reason of the failure of the bidder to complete the work within the time specified in the contract. The following Schedule of Deductions supersedes the table given in Section 60-09 of the Division's Standard Specifications for Construction of Airports.

Schedule of Deductions for Each
Day of Overrun in Contract Time

<u>Original Contract Amount</u>		<u>Daily Charge</u>
<u>From More Than</u>	<u>To and Including</u>	<u>Calendar Day</u>
\$ 0	\$ 25,000	\$ 300
25,000	100,000	375
100,000	500,000	550
500,000	1,000,000	725
1,000,000	2,000,000	900
2,000,000	3,000,000	1,100
3,000,000	5,000,000	1,300
5,000,000	7,500,000	1,450
7,500,000	10,000,000	1,650

A daily charge shall be made for every day shown on the calendar beyond the specified contract time in calendar days.

RETURN WITH BID

4. **ASSURANCE OF EXAMINATION AND INSPECTION/WAIVER.** The undersigned further declares that he/she has carefully examined the proposal, plans, specifications, supplemental and applicable recurring special provisions, form of contract and contract bonds, and special provisions, and that he/she has inspected in detail the site of the proposed work, and that he/she has familiarized themselves with all of the local conditions affecting the contract and the detailed requirements of construction, and understands that in making this proposal he/she waives all right to plead any misunderstanding regarding the same.

5. **EXECUTION OF CONTRACT AND CONTRACT BONDS.** The undersigned further agrees to execute a contract for this work and present the same to the department within fifteen (15) days after the contract has been mailed to him/her. The undersigned further agrees that he/she and his/her surety will execute and present within fifteen (15) days after the contract has been mailed to him/her contract bonds satisfactory to and in the form prescribed by the Department of Transportation, in the penal sum of the full amount of the contract, guaranteeing the faithful performance of the work in accordance with the terms of the contract and guaranteeing payment in full all bills and accounts for materials and labor used in the construction of the work.

6. **PROPOSAL GUARANTY.** Accompanying this proposal is either a bid bond on the department form, executed by a corporate surety company satisfactory to the department, or a proposal guaranty check consisting of a bank cashier's check or a properly certified check for not less than 5 per cent of the amount bid or for the amount specified in the following schedule:

<u>Amount of Bid</u>		<u>Proposal Guaranty</u>	<u>Amount of Bid</u>		<u>Proposal Guaranty</u>		
Up to	\$5,000.....	\$150	\$2,000,000	to	\$3,000,000.....	\$100,000	
\$5,000	to	\$10,000.....	\$300	\$3,000,000	to	\$5,000,000.....	\$150,000
\$10,000	to	\$50,000.....	\$1,000	\$5,000,000	to	\$7,500,000.....	\$250,000
\$50,000	to	\$100,000.....	\$3,000	\$7,500,000	to	\$10,000,000.....	\$400,000
\$100,000	to	\$150,000.....	\$5,000	\$10,000,000	to	\$15,000,000.....	\$500,000
\$150,000	to	\$250,000.....	\$7,500	\$15,000,000	to	\$20,000,000.....	\$600,000
\$250,000	to	\$500,000.....	\$12,500	\$20,000,000	to	\$25,000,000.....	\$700,000
\$500,000	to	\$1,000,000.....	\$25,000	\$25,000,000	to	\$30,000,000.....	\$800,000
\$1,000,000	to	\$1,500,000.....	\$50,000	\$30,000,000	to	\$35,000,000.....	\$900,000
\$1,500,000	to	\$2,000,000.....	\$75,000	over	\$35,000,000.....	\$1,000,000	

Bank cashier's checks or properly certified checks accompanying proposals shall be made payable to the Treasurer, State of Illinois, when the state is awarding authority; the county treasurer, when a county is the awarding authority; or the city, village, or town treasurer, when a city, village, or town is the awarding authority.

If a combination bid is submitted, the proposal guaranties which accompany the individual proposals making up the combination will be considered as also covering the combination bid.

The amount of the proposal guaranty check is _____ \$(_____). If this proposal is accepted and the undersigned shall fail to execute contract bonds as required herein, it is hereby agreed that the amount of the proposal guaranty shall become the property of the State of Illinois, and shall be considered as payment of damages due to delay and other causes suffered by the State because of the failure to execute said contract and contract bonds; otherwise, the bid bond shall become void or the proposal guaranty check shall be returned to the undersigned.

RETURN WITH BID

(e) The plans and Special Provisions for each separate contract shall be construed separately for all requirements, except as described in paragraphs (a) through (d) listed above.

When a combination bid is submitted, the schedule below must be completed in each proposal comprising the combination.

If alternate bids are submitted for one or more of the sections comprising the combination, a combination bid must be submitted for each alternate.

Schedule of Combination Bids

Combination No.	Sections Included in Combination	Combination Bid	
		Dollars	Cents

8. **SCHEDULE OF PRICES.** The undersigned submits herewith his/her schedule of prices covering the work to be performed under this contract; he/she understands that he/she must show in the schedule the unit prices (with no more than two decimal places, i.e. \$25.35, not \$25.348) for which he/she proposes to perform each item of work, that the extensions must be made by him/her, and that if not so done his/her proposal may be rejected as irregular.

The undersigned further agrees that the unit prices submitted herewith are for the purpose of obtaining a gross sum, and for use in computing the value of additions and deductions; that if there is a discrepancy between the gross sum bid and that resulting from the summation of the quantities multiplied by their respective unit prices, the latter shall govern.

COUNTY NAME	CODE	DIST	AIRPORT NAME	FED PROJECT	ILL PROJECT
KNOX	095	04	GALESBURG MUNICIPAL	3-17-0047-B8	GB-G -3433

ITEM NUMBER	PAY ITEM DESCRIPTION	UNIT OF MEASURE	QUANTITY	UNIT PRICE		TOTAL PRICE	
				DOLLARS	CENTS	DOLLARS	CTS
AR108000	CABLE TRENCH	L.F.	120.000 X				
AR108108	1/C #8 5 KV UG CABLE	L.F.	4,130.000 X				
AR108158	1/C #8 5 KV UG CABLE IN UD	L.F.	56,005.000 X				
AR109100	CONSTRUCT ELECTRICAL VAULT	L.S.	1.000 X				
AR109200	INSTALL ELECTRICAL EQUIPMENT	L.S.	1.000 X				
AR109311	7.5 KW REGULATOR, STYLE 1	EACH	2.000 X				
AR109341	20 KW REGULATOR, STYLE 1	EACH	1.000 X				
AR109342	20 KW REGULATOR, STYLE 2	EACH	1.000 X				
AR109530	POWER CABLE INSTALLATION	L.S.	1.000 X				
AR109535	ELECTRIC SERVICE ENTRANCE	L.S.	1.000 X				
AR109600	L-821 CONTROL PANEL	EACH	1.000 X				
AR109610	L-854 PCAL SYSTEM	L.S.	1.000 X				
AR109902	REMOVE ELECTRICAL EQUIPMENT	L.S.	1.000 X				
AR109903	REMOVE REGULATOR	EACH	6.000 X				
AR109909	REMOVE CONTROL PANEL	L.S.	1.000 X				

GALESBURG MUNICIPAL
KNOX

ILLINOIS DEPARTMENT OF TRANSPORTATION
SCHEDULE OF PRICES
CONTRACT NUMBER - GA004

ECMS002 DTGECM03 ECMR003 PAGE 2
RUN DATE - 03/07/06
RUN TIME - 210951

ITEM NUMBER	PAY ITEM DESCRIPTION	UNIT OF MEASURE	QUANTITY	UNIT PRICE		TOTAL PRICE	
				DOLLARS	CENTS	DOLLARS	CTS
AR109910	REMOVE ELECTRICAL TRANSCLOSURE	L.S.	1.000 X				
AR110314	4" STEEL DUCT, JACKED	L.F.	146.000 X				
AR110710	ELECTRICAL MANHOLE	EACH	1.000 X				
AR125410	MITL-STAKE MOUNTED	EACH	287.000 X				
AR125415	MITL-BASE MOUNTED	EACH	32.000 X				
AR125442	TAXI GUIDANCE SIGN, 2 CHARACTER	EACH	16.000 X				
AR125443	TAXI GUIDANCE SIGN, 3 CHARACTER	EACH	5.000 X				
AR125444	TAXI GUIDANCE SIGN, 4 CHARACTER	EACH	7.000 X				
AR125445	TAXI GUIDANCE SIGN, 5 CHARACTER	EACH	3.000 X				
AR125448	TAXI GUIDANCE SIGN, 8 CHARACTER	EACH	1.000 X				
AR125449	TAXI GUIDANCE SIGN, 9 CHARACTER	EACH	4.000 X				
AR125505	MIRL, STAKE MOUNTED	EACH	26.000 X				
AR125510	MIRL, BASE MOUNTED	EACH	8.000 X				
AR125515	HIRL, BASE MOUNTED	EACH	62.000 X				
AR125540	MI THRESHOLD LIGHT STAKE MTD	EACH	16.000 X				

ITEM NUMBER	PAY ITEM DESCRIPTION	UNIT OF MEASURE	QUANTITY	UNIT PRICE		TOTAL PRICE	
				DOLLARS	CENTS	DOLLARS	CTS
AR125550	HI THRESHOLD LIGHT BASE MTD	EACH	16.000 X				
AR125565	SPLICE CAN	EACH	1.000 X				
AR125610	REILS	PAIR	1.000 X				
AR125901	REMOVE STAKE MOUNTED LIGHT	EACH	305.000 X				
AR125902	REMOVE BASE MOUNTED LIGHT	EACH	114.000 X				
AR125904	REMOVE TAXI GUIDANCE SIGN	EACH	50.000 X				
AR125907	REMOVE REILS	PAIR	1.000 X				
AR150530	TRAFFIC MAINTENANCE	L.S.	1.000 X				
AR501605	5" PCC SIDEWALK	S.F.	72.000 X				
				TOTAL \$			

- NOTE:
1. EACH PAY ITEM SHOULD HAVE A UNIT PRICE AND A TOTAL PRICE.
 2. THE UNIT PRICE SHALL GOVERN IF NO TOTAL PRICE IS SHOWN OR IF THERE IS A DISCREPANCY BETWEEN THE PRODUCT OF THE UNIT PRICE MULTIPLIED BY THE QUANTITY.
 3. IF A UNIT PRICE IS OMITTED, THE TOTAL PRICE WILL BE DIVIDED BY THE QUANTITY IN ORDER TO ESTABLISH A UNIT PRICE.
 4. A BID MAY BE DECLARED UNACCEPTABLE IF NEITHER A UNIT PRICE NOR A TOTAL PRICE IS SHOWN.

RETURN WITH BID

THE PRECEDING SCHEDULE OF PRICES MUST BE

COMPLETED AND RETURNED.

RETURN WITH BID

**STATE REQUIRED ETHICAL
STANDARDS GOVERNING CONTRACT
PROCUREMENT: ASSURANCES, CERTIFICATIONS
AND DISCLOSURES**

I. GENERAL

A. Article 50 of the Illinois Procurement Code establishes the duty of all State chief procurement officers, State purchasing officers, and their designees to maximize the value of the expenditure of public moneys in procuring goods, services, and contracts for the State of Illinois and to act in a manner that maintains the integrity and public trust of State government. In discharging this duty, they are charged by law to use all available information, reasonable efforts, and reasonable actions to protect, safeguard, and maintain the procurement process of the State of Illinois.

B. In order to comply with the provisions of Article 50 and to carry out the duty established therein, all bidders are to adhere to ethical standards established for the procurement process, and to make such assurances, disclosures and certifications required by law. By execution of the Proposal Signature Sheet, the bidder indicates that each of the mandated assurances has been read and understood, that each certification is made and understood, and that each disclosure requirement has been understood and completed.

C. In addition to all other remedies provided by law, failure to comply with any assurance, failure to make any disclosure or the making of a false certification shall be grounds for termination of the contract and the suspension or debarment of the bidder.

II. ASSURANCES

A. The assurances hereinafter made by the bidder are each a material representation of fact upon which reliance is placed should the Department enter into the contract with the bidder. The Department may terminate the contract if it is later determined that the bidder rendered a false or erroneous assurance, and the surety providing the performance bond shall be responsible for the completion of the contract.

B. Felons

1. The Illinois Procurement Code provides:

Section 50-10. Felons. Unless otherwise provided, no person or business convicted of a felony shall do business with the State of Illinois or any state agency from the date of conviction until 5 years after the date of completion of the sentence for that felony, unless no person held responsible by a prosecutorial office for the facts upon which the conviction was based continues to have any involvement with the business.

2. The bidder assures the Department that the award and execution of the contract would not cause a violation of Section 50-10.

RETURN WITH BID

C. Conflicts of Interest

1. The Illinois Procurement Code provides in pertinent part:

Section 50-13. Conflicts of Interest.

(a) Prohibition. It is unlawful for any person holding an elective office in this State, holding a seat in the General Assembly, or appointed to or employed in any of the offices or agencies of state government and who receives compensation for such employment in excess of 60% of the salary of the Governor of the State of Illinois, or who is an officer or employee of the Capital Development Board or the Illinois Toll Highway Authority, or who is the spouse or minor child of any such person to have or acquire any contract, or any direct pecuniary interest in any contract therein, whether for stationery, printing, paper, or any services, materials, or supplies, that will be wholly or partially satisfied by the payment of funds appropriated by the General Assembly of the State of Illinois or in any contract of the Capital Development Board or the Illinois Toll Highway authority.

(b) Interests. It is unlawful for any firm, partnership, association or corporation, in which any person listed in subsection (a) is entitled to receive (i) more than 7 1/2% of the total distributable income or (ii) an amount in excess of the salary of the Governor, to have or acquire any such contract or direct pecuniary interest therein.

(c) Combined interests. It is unlawful for any firm, partnership, association, or corporation, in which any person listed in subsection (a) together with his or her spouse or minor children is entitled to receive (i) more than 15%, in the aggregate, of the total distributable income or (ii) an amount in excess of 2 times the salary of the Governor, to have or acquire any such contract or direct pecuniary interest therein.

(d) Securities. Nothing in this Section invalidates the provisions of any bond or other security previously offered or to be offered for sale or sold by or for the State of Illinois.

(e) Prior interests. This Section does not affect the validity of any contract made between the State and an officer or employee of the State or member of the General Assembly, his or her spouse, minor child or any combination of those persons if that contract was in existence before his or her election or employment as an officer, member, or employee. The contract is voidable, however, if it cannot be completed within 365 days after the officer, member, or employee takes office or is employed.

The current salary of the Governor is \$145,877.00. Sixty percent of the salary is \$87,526.20.

2. The bidder assures the Department that the award and execution of the contract would not cause a violation of Section 50-13, or that an effective exemption has been issued by the Board of Ethics to any individual subject to the Section 50-13 prohibitions pursuant to the provisions of Section 50-20 of the Code and Executive Order Number 3 (1998). Information concerning the exemption process is available from the Department upon request.

D. Negotiations

1. The Illinois Procurement Code provides in pertinent part:

Section 50-15. Negotiations.

(a) It is unlawful for any person employed in or on a continual contractual relationship with any of the offices or agencies of State government to participate in contract negotiations on behalf of that office or agency with any firm, partnership, association, or corporation with whom that person has a contract for future employment or is negotiating concerning possible future employment.

2. The bidder assures the Department that the award and execution of the contract would not cause a violation of Section 50-15, and that the bidder has no knowledge of any facts relevant to the kinds of acts prohibited therein.

RETURN WITH BID

E. Inducements

1. The Illinois Procurement Code provides:

Section 50-25. Inducement. Any person who offers or pays any money or other valuable thing to any person to induce him or her not to bid for a State contract or as recompense for not having bid on a State contract is guilty of a Class 4 felony. Any person who accepts any money or other valuable thing for not bidding for a State contract or who withholds a bid in consideration of the promise for the payment of money or other valuable thing is guilty of a Class 4 felony.

2. The bidder assures the Department that the award and execution of the contract would not cause a violation of Section 50-25, and that the bidder has no knowledge of any facts relevant to the kinds of acts prohibited therein.

F. Revolving Door Prohibition

1. The Illinois Procurement Code provides:

Section 50-30. Revolving door prohibition. Chief procurement officers, associate procurement officers, State purchasing officers, their designees whose principal duties are directly related to State procurement, and executive officers confirmed by the Senate are expressly prohibited for a period of 2 years after terminating an affected position from engaging in any procurement activity relating to the State agency most recently employing them in an affected position for a period of at least 6 months. The prohibition includes, but is not limited to: lobbying the procurement process; specifying; bidding; proposing bid, proposal, or contract documents; on their own behalf or on behalf of any firm, partnership, association, or corporation. This Section applies only to persons who terminate an affected position on or after January 15, 1999.

2. The bidder assures the Department that the award and execution of the contract would not cause a violation of Section 50-30, and that the bidder has no knowledge of any facts relevant to the kinds of acts prohibited therein.

G. Reporting Anticompetitive Practices

1. The Illinois Procurement Code provides:

Section 50-40. Reporting anticompetitive practices. When, for any reason, any vendor, bidder, contractor, chief procurement officer, State purchasing officer, designee, elected official, or State employee suspects collusion or other anticompetitive practice among any bidders, offers, contractors, proposers, or employees of the State, a notice of the relevant facts shall be transmitted to the Attorney General and the chief procurement officer.

2. The bidder assures the Department that it has not failed to report any relevant facts concerning the practices addressed in Section 50-40 which may involve the contract for which the bid is submitted.

H. Confidentiality

1. The Illinois Procurement Code provides:

Section 50-45. Confidentiality. Any chief procurement officer, State purchasing officer, designee, or executive officer who willfully uses or allows the use of specifications, competitive bid documents, proprietary competitive information, proposals, contracts, or selection information to compromise the fairness or integrity of the procurement, bidding, or contract process shall be subject to immediate dismissal, regardless of the Personnel code, any contract, or any collective bargaining agreement, and may in addition be subject to criminal prosecution.

2. The bidder assures the Department that it has no knowledge of any fact relevant to the practices addressed in Section 50-45 which may involve the contract for which the bid is submitted.

RETURN WITH BID

I. Insider Information

1. The Illinois Procurement Act provides:

Section 50-50. Insider information. It is unlawful for any current or former elected or appointed State official or State employee to knowingly use confidential information available only by virtue of that office or employment for actual or anticipated gain for themselves or another person.

2. The bidder assures the Department that it has no knowledge of any facts relevant to the practices addressed in Section 50-50 which may involve the contract for which the bid is submitted.

III. CERTIFICATIONS

A. The certifications hereinafter made by the bidder are each a material representation of fact upon which reliance is placed should the Department enter into the contract with the bidder. The Department may terminate the contract if it is later determined that the bidder rendered a false or erroneous certification, and the surety providing the performance bond shall be responsible for completion of the contract.

B. Bribery

1. The Illinois Procurement Code provides:

Section 50-5. Bribery.

(a) Prohibition. No person or business shall be awarded a contract or subcontract under this Code who:

(1) has been convicted under the laws of Illinois or any other state of bribery or attempting to bribe an officer or employee of the State of Illinois or any other state in that officer's or employee's official capacity; or

(2) has made an admission of guilt of that conduct that is a matter of record but has not been prosecuted for that conduct.

(b) Businesses. No business shall be barred from contracting with any unit of State or local government as a result of a conviction under this Section of any employee or agent of the business if the employee or agent is no longer employed by the business and:

(1) the business has been finally adjudicated not guilty; or

(2) the business demonstrates to the governmental entity with which it seeks to contract, and that entity finds that the commission of the offense was not authorized, requested, commanded, or performed by a director, officer, or high managerial agent on behalf of the business as provided in paragraph (2) of subsection (a) of Section 5-4 of the Criminal Code of 1961.

(c) Conduct on behalf of business. For purposes of this Section, when an official, agent, or employee of a business committed the bribery or attempted bribery on behalf of the business and in accordance with the direction or authorization of a responsible official of the business, the business shall be chargeable with the conduct.

(d) Certification. Every bid submitted to and contract executed by the State shall contain a certification by the contractor that the contractor is not barred from being awarded a contract or subcontract under this Section. A contractor who makes a false statement, material to the certification, commits a Class 3 felony.

2. The bidder certifies that it is not barred from being awarded a contract under Section 50.5.

RETURN WITH BID

C. Educational Loan

1. Section 3 of the Educational Loan Default Act provides:

§ 3. No State agency shall contract with an individual for goods or services if that individual is in default, as defined in Section 2 of this Act, on an educational loan. Any contract used by any State agency shall include a statement certifying that the individual is not in default on an educational loan as provided in this Section.

2. The bidder, if an individual as opposed to a corporation, partnership or other form of business organization, certifies that the bidder is not in default on an educational loan as provided in Section 3 of the Act.

D. Bid-Rigging/Bid Rotating

1. Section 33E-11 of the Criminal Code of 1961 provides:

§ 33E-11. (a) Every bid submitted to and public contract executed pursuant to such bid by the State or a unit of local government shall contain a certification by the prime contractor that the prime contractor is not barred from contracting with any unit of State or local government as a result of a violation of either Section 33E-3 or 33E-4 of this Article. The State and units of local government shall provide the appropriate forms for such certification.

(b) A contractor who makes a false statement, material to the certification, commits a Class 3 felony.

A violation of Section 33E-3 would be represented by a conviction of the crime of bid-rigging which, in addition to Class 3 felony sentencing, provides that any person convicted of this offense or any similar offense of any state or the United States which contains the same elements as this offense shall be barred for 5 years from the date of conviction from contracting with any unit of State or local government. No corporation shall be barred from contracting with any unit of State or local government as a result of a conviction under this Section of any employee or agent of such corporation if the employee so convicted is no longer employed by the corporation and: (1) it has been finally adjudicated not guilty or (2) if it demonstrates to the governmental entity with which it seeks to contract and that entity finds that the commission of the offense was neither authorized, requested, commanded, nor performed by a director, officer or a high managerial agent in behalf of the corporation.

A violation of Section 33E-4 would be represented by a conviction of the crime of bid-rotating which, in addition to Class 2 felony sentencing, provides that any person convicted of this offense or any similar offense of any state or the United States which contains the same elements as this offense shall be permanently barred from contracting with any unit of State or local government. No corporation shall be barred from contracting with any unit of State or local government as a result of a conviction under this Section of any employee or agent of such corporation if the employee so convicted is no longer employed by the corporation and: (1) it has been finally adjudicated not guilty or (2) if it demonstrates to the governmental entity with which it seeks to contract and that entity finds that the commission of the offense was neither authorized, requested, commanded, nor performed by a director, officer or a high managerial agent in behalf of the corporation.

2. The bidder certifies that it is not barred from contracting with the Department by reason of a violation of either Section 33E-3 or Section 33E-4.

E. International Anti-Boycott

1. Section 5 of the International Anti-Boycott Certification Act provides:

§ 5. State contracts. Every contract entered into by the State of Illinois for the manufacture, furnishing, or purchasing of supplies, material, or equipment or for the furnishing of work, labor, or services, in an amount exceeding the threshold for small purchases according to the purchasing laws of this State or \$10,000.00, whichever is less, shall contain certification, as a material condition of the contract, by which the contractor agrees that neither the contractor nor any substantially-owned affiliated company is participating or shall participate in an international boycott in violation of the provisions of the U.S. Export Administration Act of 1979 or the regulations of the U.S. Department of Commerce promulgated under that Act.

2. The bidder makes the certification set forth in Section 5 of the Act.

RETURN WITH BID

F. Drug Free Workplace

1. The Illinois “Drug Free Workplace Act” applies to this contract and it is necessary to comply with the provisions of the “Act” if the contractor is a corporation, partnership, or other entity (including a sole proprietorship) which has 25 or more employees.

2. The bidder certifies that if awarded a contract in excess of \$5,000 it will provide a drug free workplace by:

(a) Publishing a statement notifying employees that the unlawful manufacture, distribution, dispensation, possession or use of a controlled substance, including cannabis, is prohibited in the contractor’s workplace; specifying the actions that will be taken against employees for violations of such prohibition; and notifying the employee that, as a condition of employment on such contract, the employee shall abide by the terms of the statement, and notify the employer of any criminal drug statute conviction for a violation occurring in the workplace no later than five (5) days after such conviction.

(b) Establishing a drug free awareness program to inform employees about the dangers of drug abuse in the workplace; the contractor’s policy of maintaining a drug free workplace; any available drug counseling, rehabilitation, and employee assistance programs; and the penalties that may be imposed upon employees for drug violations.

(c) Providing a copy of the statement required by subparagraph (1) to each employee engaged in the performance of the contract and to post the statement in a prominent place in the workplace.

(d) Notifying the Department within ten (10) days after receiving notice from an employee or otherwise receiving actual notice of the conviction of an employee for a violation of any criminal drug statute occurring in the workplace.

(e) Imposing or requiring, within 30 days after receiving notice from an employee of a conviction or actual notice of such a conviction, an appropriate personnel action, up to and including termination, or the satisfactory participation in a drug abuse assistance or rehabilitation program approved by a federal, state or local health, law enforcement or other appropriate agency.

(f) Assisting employees in selecting a course of action in the event drug counseling, treatment, and rehabilitation is required and indicating that a trained referral team is in place.

(g) Making a good faith effort to continue to maintain a drug free workplace through implementation of the actions and efforts stated in this certification.

G. Debt Delinquency

1. The Illinois Procurement Code provides:

Section 50-11 and 50-12. Debt Delinquency.

The contractor or bidder certifies that it, or any affiliate, is not barred from being awarded a contract under 30 ILCS 500. Section 50-11 prohibits a person from entering into a contract with a State agency if it knows or should know that it, or any affiliate, is delinquent in the payment of any debt to the State as defined by the Debt Collection Board. Section 50-12 prohibits a person from entering into a contract with a State agency if it, or any affiliate, has failed to collect and remit Illinois Use Tax on all sales of tangible personal property into the State of Illinois in accordance with the provisions of the Illinois Use Tax Act. The contractor further acknowledges that the contracting State agency may declare the contract void if this certification is false or if the contractor, or any affiliate, is determined to be delinquent in the payment of any debt to the State during the term of the contract.

RETURN WITH BID

H. Sarbanes-Oxley Act of 2002

1. The Illinois Procurement Code provides:

Section 50-60(c).

The contractor certifies in accordance with 30 ILCS 500/50-10.5 that no officer, director, partner or other managerial agent of the contracting business has been convicted of a felony under the Sarbanes-Oxley Act of 2002 or a Class 3 or Class 2 felony under the Illinois Securities Law of 1953 for a period of five years prior to the date of the bid or contract. The contractor acknowledges that the contracting agency shall declare the contract void if this certification is false.

I. Section 42 of the Environmental Protection Act

The contractor certifies in accordance with 30 ILCS 500/50-12 that the bidder or contractor is not barred from being awarded a contract under this Section which prohibits the bidding on or entering into contracts with the State of Illinois or a State agency by a person or business found by a court or the Pollution Control Board to have committed a willful or knowing violation of Section 42 of the Environmental Protection Act for a period of five years from the date of the order. The contractor acknowledges that the contracting agency may declare the contract void if this certification is false.

RETURN WITH BID

IV. DISCLOSURES

A. The disclosures hereinafter made by the bidder are each a material representation of fact upon which reliance is placed should the Department enter into the contract with the bidder. The Department may terminate the contract if it is later determined that the bidder rendered a false or erroneous disclosure, and the surety providing the performance bond shall be responsible for completion of the contract.

B. Financial Interests and Conflicts of Interest

1. Section 50-35 of the Illinois Procurement Code provides that all bids of more than \$10,000 shall be accompanied by disclosure of the financial interests of the bidder. This disclosed information for the successful bidder, will be maintained as public information subject to release by request pursuant to the Freedom of Information Act.

The financial interests to be disclosed shall include ownership or distributive income share that is in excess of 5%, or an amount greater than 60% of the annual salary of the Governor, of the bidding entity or its parent entity, whichever is less, unless the contractor or bidder is a publicly traded entity subject to Federal 10K reporting, in which case it may submit its 10K disclosure in place of the prescribed disclosure. The disclosure shall include the names, addresses, and dollar or proportionate share of ownership of each person making the disclosure, their instrument of ownership or beneficial relationship, and notice of any potential conflict of interest resulting from the current ownership or beneficial interest of each person making the disclosure having any of the relationships identified in Section 50-35 and on the disclosure form.

In addition, all disclosures shall indicate any other current or pending contracts, proposals, leases, or other ongoing procurement relationships the bidding entity has with any other unit of state government and shall clearly identify the unit and the contract, proposal, lease, or other relationship.

2. Disclosure Forms. Disclosure Form A is attached for use concerning the individuals meeting the above ownership or distributive share requirements. Subject individuals should be covered each by one form. In addition, a second form (Disclosure Form B) provides for the disclosure of current or pending procurement relationships with other (non-IDOT) state agencies. **The forms must be included with each bid or incorporated by reference.**

C. Disclosure Form Instructions

Form A: For bidders that have previously submitted the information requested in Form A

The Department has retained the Form A disclosures submitted by all bidders responding to these requirements for the April 24, 1998 or any subsequent letting conducted by the Department. The bidder has the option of submitting the information again or the bidder may sign the following certification statement indicating that the information previously submitted by the bidder is, as of the date of signature, current and accurate. The Certification must be signed and dated by a person who is authorized to execute contracts for the bidding company. Before signing this certification, the bidder should carefully review its prior submissions to ensure the Certification is correct. If the Bidder signs the Certification, the Bidder should proceed to Form B instructions.

CERTIFICATION STATEMENT

I have determined that the Form A disclosure information previously submitted is current and accurate, and all forms are hereby incorporated by reference in this bid. Any necessary additional forms or amendments to previously submitted forms are attached to this bid.

(Bidding Company)

Name of Authorized Representative (type or print)

Title of Authorized Representative (type or print)

Signature of Authorized Representative

Date

Form A: For bidders who have NOT previously submitted the information requested in Form A

If the bidder is a publicly traded entity subject to Federal 10K reporting, the 10K Report may be submitted to meet the requirements of Form A. If a bidder is not subject to Federal 10K reporting, the bidder must determine if any individuals are required by law to complete a financial disclosure form. To do this, the bidder should answer each of the following questions. A "YES" answer indicates Form A must be completed. If the answer to each of the following questions is "NO", then the NOT APPLICABLE STATEMENT on the second page of Form A must be signed and dated by a person that is authorized to execute contracts for the bidding company. Note These questions are for assistance only and are not required to be completed.

1. Does anyone in your organization have a direct or beneficial ownership share of greater than 5% of the bidding entity or parent entity? YES _____ NO _____
2. Does anyone in your organization have a direct or beneficial ownership share of less than 5%, but which has a value greater than \$87,526.20? YES _____ NO _____
3. Does anyone in your organization receive more than \$87,526.20 of the bidding entity's or parent entity's distributive income? (Note: Distributive income is, for these purposes, any type of distribution of profits. An annual salary is not distributive income.) YES _____ NO _____
4. Does anyone in your organization receive greater than 5% of the bidding entity's or parent entity's total distributive income, but which is less than \$87,526.20? YES _____ NO _____

(Note: Only one set of forms needs to be completed per person per bid even if a specific individual would require a yes answer to more than one question.)

A "YES" answer to any of these questions requires the completion of Form A. The bidder must determine each individual in the bidding entity or the bidding entity's parent company that would cause the questions to be answered "Yes". Each form must be signed and dated by a person that is authorized to execute contracts for your organization. **Photocopied or stamped signatures are not acceptable.** The person signing can be, but does not have to be, the person for which the form is being completed. The bidder is responsible for the accuracy of any information provided.

If the answer to each of the above questions is "NO", then the NOT APPLICABLE STATEMENT on page 2 of Form A must be signed and dated by a person that is authorized to execute contracts for your company.

Form B: Identifying Other Contracts & Procurement Related Information Disclosure Form B must be completed for each bid submitted by the bidding entity. It must be signed by an individual who is authorized to execute contracts for the bidding entity. *Note: Signing the NOT APPLICABLE STATEMENT on Form A does not allow the bidder to ignore Form B. Form B must be completed, signed and dated or the bidder may be considered nonresponsive and the bid will not be accepted.*

The Bidder shall identify, by checking Yes or No on Form B, whether it has any pending contracts (including leases), bids, proposals, or other ongoing procurement relationship with any other (non-IDOT) State of Illinois agency. If "No" is checked, the bidder only needs to complete the signature box on the bottom of Form B. If "Yes" is checked, the bidder must do one of the following:

Option I: If the bidder did not submit an Affidavit of Availability to obtain authorization to bid, the bidder must list all non-IDOT State of Illinois agency pending contracts, leases, bids, proposals, and other ongoing procurement relationships. These items may be listed on Form B or on an attached sheet(s). Do not include IDOT contracts. Contracts with cities, counties, villages, etc. are not considered State of Illinois agency contracts and are not to be included. Contracts with other State of Illinois agencies such as the Department of Natural Resources or the Capital Development Board must be included. Bidders who submit Affidavits of Availability are suggested to use Option II.

Option II: If the bidder is required and has submitted an Affidavit of Availability in order to obtain authorization to bid, the bidder may write or type "See Affidavit of Availability" which indicates that the Affidavit of Availability is incorporated by reference and includes all non-IDOT State of Illinois agency pending contracts, leases, bids, proposals, and other ongoing procurement relationships. For any contracts that are not covered by the Affidavit of Availability, the bidder must identify them on Form B or on an attached sheet(s). These might be such things as leases.

D. Bidders Submitting More Than One Bid

Bidders submitting multiple bids may submit one set of forms consisting of all required Form A disclosures and one Form B for use with all bids. Please indicate in the space provided below the bid item that contains the original disclosure forms and the bid items which incorporate the forms by reference.

- The bid submitted for letting item _____ contains the Form A disclosures or Certification Statement and the Form B disclosures. The following letting items incorporate the said forms by reference:

**ILLINOIS DEPARTMENT
OF TRANSPORTATION**

**Form A
Financial Information &
Potential Conflicts of Interest
Disclosure**

Contractor Name		
Legal Address		
City, State, Zip		
Telephone Number		Fax Number (if available)

Disclosure of the information contained in this Form is required by the Section 50-35 of the Illinois Procurement Code (30 ILCS 500). Vendors desiring to enter into a contract with the State of Illinois must disclose the financial information and potential conflict of interest information as specified in this Disclosure Form. This information shall become part of the publicly available contract file. This Form A must be completed for bids in excess of \$10,000, and for all open-ended contracts. **A publicly traded company may submit a 10K disclosure in satisfaction of the requirements set forth in Form A. See Disclosure Form Instructions.**

DISCLOSURE OF FINANCIAL INFORMATION

1. Disclosure of Financial Information. The individual named below has an interest in the BIDDER (or its parent) in terms of ownership or distributive income share in excess of 5%, or an interest which has a value of more than \$87,526.20 (60% of the Governor’s salary as of 10/1/2000). **(Make copies of this form as necessary and attach a separate Disclosure Form A for each individual meeting these requirements)**

FOR INDIVIDUAL (type or print information)	
NAME:	_____
ADDRESS	_____
Type of ownership/distributable income share:	
stock _____	sole proprietorship _____
partnership _____	other: (explain on separate sheet): _____
% or \$ value of ownership/distributable income share: _____	

2. Disclosure of Potential Conflicts of Interest. Check “Yes” or “No” to indicate which, if any, of the following potential conflict of interest relationships apply. If the answer to any question is “Yes”, please attach additional pages and describe.

(a) State employment, currently or in the previous 3 years, including contractual employment of services.
Yes _____ No _____

(b) State employment of spouse, father, mother, son, or daughter, including contractual employment for services in the previous 2 years.
Yes _____ No _____

(c) Elective status; the holding of elective office of the State of Illinois, the government of the United States, any unit of local government authorized by the Constitution of the State of Illinois or the statutes of the State of Illinois currently or in the previous 3 years.
Yes _____ No _____

(d) Relationship to anyone holding elective office currently or in the previous 2 years; spouse, father, mother, son, or daughter
Yes _____ No _____

RETURN WITH BID/OFFER

(e) Appointive office; the holding of any appointive government office of the State of Illinois, the United States of America, or any unit of local government authorized by the Constitution of the State of Illinois or the statutes of the State of Illinois, which office entitles the holder to compensation in excess of the expenses incurred in the discharge of that office currently or in the previous 3 years.

Yes _____ No _____

(f) Relationship to anyone holding appointive office currently or in the previous 2 years; spouse, father, mother, son, or daughter.

Yes _____ No _____

(g) Employment, currently or in the previous 3 years, as or by any registered lobbyist of the State government.

Yes _____ No _____

(h) Relationship to anyone who is or was a registered lobbyist in the previous 2 years; spouse, father, mother, son, or daughter.

Yes _____ No _____

(i) Compensated employment, currently or in the previous 3 years, by any registered election or reelection committee registered with the Secretary of State or any county clerk of the State of Illinois, or any political action committee registered with either the Secretary of State or the Federal Board of Elections.

Yes _____ No _____

(j) Relationship to anyone; spouse, father, mother, son, or daughter; who was a compensated employee in the last 2 years by any registered election or re-election committee registered with the Secretary of State or any county clerk of the State of Illinois, or any political action committee registered with either the Secretary of State or the Federal Board of Elections.

Yes _____ No _____

APPLICABLE STATEMENT

This Disclosure Form A is submitted on behalf of the INDIVIDUAL named on previous page.

Completed by:

Name of Authorized Representative (type or print)

Completed by:

Title of Authorized Representative (type or print)

Completed by:

Signature of Individual or Authorized Representative

Date

NOT APPLICABLE STATEMENT

I have determined that no individuals associated with this organization meet the criteria that would require the completion of this Form A.

This Disclosure Form A is submitted on behalf of the CONTRACTOR listed on the previous page.

Name of Authorized Representative (type or print)

Title of Authorized Representative (type or print)

Signature of Authorized Representative

Date

**ILLINOIS DEPARTMENT
OF TRANSPORTATION**

**Form B
Other Contracts &
Procurement Related Information
Disclosure**

Contractor Name		
Legal Address		
City, State, Zip		
Telephone Number		Fax Number (if available)

Disclosure of the information contained in this Form is required by the Section 50-35 of the Illinois Procurement Act (30 ILCS 500). This information shall become part of the publicly available contract file. This Form B must be completed for bids in excess of \$10,000, and for all open-ended contracts.

DISCLOSURE OF OTHER CONTRACTS AND PROCUREMENT RELATED INFORMATION

1. Identifying Other Contracts & Procurement Related Information. The BIDDER shall identify whether it has any pending contracts (including leases), bids, proposals, or other ongoing procurement relationship with any other State of Illinois agency: Yes _____ No _____

If **“No”** is checked, the bidder only needs to complete the signature box on the bottom of this page.

2. If “Yes” is checked. Identify each such relationship by showing State of Illinois agency name and other descriptive information such as bid or project number (attach additional pages as necessary). SEE DISCLOSURE FORM INSTRUCTIONS:

THE FOLLOWING STATEMENT MUST BE SIGNED

Name of Authorized Representative (type or print)	

Title of Authorized Representative (type or print)	
_____	_____
Signature of Authorized Representative	Date

RETURN WITH BID

SPECIAL NOTICE TO CONTRACTORS

The following requirements of the Illinois Department of Human Rights' Rules and Regulations are applicable to bidders on all construction contracts advertised by the Illinois Department of Transportation:

CONSTRUCTION EMPLOYEE UTILIZATION PROJECTION

- (a) All bidders on construction contracts shall complete and submit, along with and as part of their bids, a Bidder's Employee Utilization Form (Form BC-1256) setting forth a projection and breakdown of the total workforce intended to be hired and/or allocated to such contract work by the bidder including a projection of minority and female employee utilization in all job classifications on the contract project.
- (b) The Department of Transportation shall review the Employee Utilization Form, and workforce projections contained therein, of the contract awardee to determine if such projections reflect an underutilization of minority persons and/or women in any job classification in accordance with the Equal Employment Opportunity Clause and Section 7.2 of the Illinois Department of Human Rights' Rules and Regulations for Public Contracts adopted as amended on September 17, 1980. If it is determined that the contract awardee's projections reflect an underutilization of minority persons and/or women in any job classification, it shall be advised in writing of the manner in which it is underutilizing and such awardee shall be considered to be in breach of the contract unless, prior to commencement of work on the contract project, it submits revised satisfactory projections or an acceptable written affirmative action plan to correct such underutilization including a specific timetable geared to the completion stages of the contract.
- (c) The Department of Transportation shall provide to the Department of Human Rights a copy of the contract awardee's Employee Utilization Form, a copy of any required written affirmative action plan, and any written correspondence related thereto. The Department of Human Rights may review and revise any action taken by the Department of Transportation with respect to these requirements.

RETURN WITH BID

PART II. WORKFORCE PROJECTION - continued

- B. Included in "Total Employees" under Table A is the total number of **new hires** that would be employed in the event the undersigned bidder is awarded this contract.

The undersigned bidder projects that: (number) _____ new hires would be recruited from the area in which the contract project is located; and/or (number) _____ new hires would be recruited from the area in which the bidder's principal office or base of operation is located.

- C. Included in "Total Employees" under Table A is a projection of numbers of persons to be employed directly by the undersigned bidder as well as a projection of numbers of persons to be employed by subcontractors.

The undersigned bidder estimates that (number) _____ persons will be directly employed by the prime contractor and that (number) _____ persons will be employed by subcontractors.

PART III. AFFIRMATIVE ACTION PLAN

- A. The undersigned bidder understands and agrees that in the event the foregoing minority and female employee utilization projection included under **PART II** is determined to be an underutilization of minority persons or women in any job category, and in the event that the undersigned bidder is awarded this contract, he/she will, prior to commencement of work, develop and submit a written Affirmative Action Plan including a specific timetable (geared to the completion stages of the contract) whereby deficiencies in minority and/or female employee utilization are corrected. Such Affirmative Action Plan will be subject to approval by the contracting agency and the **Department of Human Rights**.
- B. The undersigned bidder understands and agrees that the minority and female employee utilization projection submitted herein, and the goals and timetable included under an Affirmative Action Plan if required, are deemed to be part of the contract specifications.

Company _____ Telephone Number _____

 Address _____

NOTICE REGARDING SIGNATURE

The Bidder's signature on the Proposal Signature Sheet will constitute the signing of this form. The following signature block needs to be completed only if revisions are required.

Signature: _____ Title: _____ Date: _____

- Instructions: All tables must include subcontractor personnel in addition to prime contractor personnel.
- Table A - Include both the number of employees that would be hired to perform the contract work and the total number currently employed (Table B) that will be allocated to contract work, and include all apprentices and on-the-job trainees. The "Total Employees" column should include all employees including all minorities, apprentices and on-the-job trainees to be employed on the contract work.
 - Table B - Include all employees currently employed that will be allocated to the contract work including any apprentices and on-the-job trainees currently employed.
 - Table C - Indicate the racial breakdown of the total apprentices and on-the-job trainees shown in Table A.

RETURN WITH BID

CERTIFICATIONS REQUIRED BY STATE AND/OR FEDERAL LAW. The bidder is required by State and/or Federal law to make the below certifications and assurances as a part of the proposal and contract upon award. It is understood by the bidder that the certifications and assurances made herein are a part of the contract.

By signing the Proposal Signature Sheet, the bidder certifies that he/she has read and completed each of the following certifications and assurances, that required responses are true and correct and that the certified signature of the Proposal Signature Sheet constitutes an endorsement and execution of each certification and assurance as though each was individually signed:

A. By the execution of this proposal, the signing bidder certifies that the bidding entity has not, either directly or indirectly, entered into any agreement, participated in any collusion, or otherwise taken any action, in restraint of free competitive bidding in connection with the submitted bid. This statement made by the undersigned bidder is true and correct under penalty of perjury under the laws of the United States.

B. **CERTIFICATION, EQUAL EMPLOYMENT OPPORTUNITY:**

1. Have you participated in any previous contracts or subcontracts subject to the equal opportunity clause.
YES _____ NO _____

2. If answer to #1 is yes, have you filed with the Joint Reporting Committee, the Director of OFCC, any Federal agency, or the former President's Committee on Equal Employment Opportunity, all reports due under the applicable filing requirements of those organizations? YES _____ NO _____

C. **BUY AMERICAN - STEEL AND MANUFACTURED PRODUCTS FOR CONSTRUCTION CONTRACTS (JAN 1991)**

(a) The Aviation Safety and Capacity Expansion Act of 1990 provides that preference be given to steel and manufactured products produced in the United States when funds are expended pursuant to a grant issued under the Airport Improvement Program. The following terms apply:

1. Steel and manufactured products. As used in this clause, steel and manufactured products include (1) steel produced in the United States or (2) a manufactured product produced in the United States, if the cost of its components mined, produced or manufactured in the United States exceeds 60 percent of the cost of all its components and final assembly has taken place in the United States. Components of foreign origin of the same class or kind as the products referred to in subparagraphs (b)(1) or (2) shall be treated as domestic.

2. Components. As used in this clause, components means those articles, materials, and supplies incorporated directly into steel and manufactured products.

3. Cost of Components. This means the costs for production of the components, exclusive of final assembly labor costs.

(b) The successful bidder will be required to assure that only domestic steel and manufactured products will be used by the Contractor, subcontractors, materialmen, and suppliers in the performance of this contract, except those-

- (1) that the U.S. Department of Transportation has determined, under the Aviation Safety and Capacity Expansion Act of 1990, are not produced in the United States in sufficient and reasonably available quantities of a satisfactory quality;

- (2) that the U.S. Department of Transportation has determined, under the Aviation Safety and Capacity Expansion Act of 1990, that domestic preference would be inconsistent with the public interest; or

- (3) that inclusion of domestic material will increase the cost of the overall project contract by more than 25 percent.

(End of Clause)

RETURN WITH BID

D. BUY AMERICAN CERTIFICATE (JAN 1991)

By submitting a bid/proposal under this solicitation, except for those items listed by the offeror below or on a separate and clearly identified attachment to this bid/proposal, the offeror certifies that steel and each manufactured product, is produced in the United States (as defined in the clause Buy American - Steel and Manufactured Products or Buy American - Steel and Manufactured Products For Construction Contracts) and that components of unknown origin are considered to have been produced or manufactured outside the United States.

Offerors may obtain from (IDOT, Division of Aeronautics) lists of articles, materials, and supplies excepted from this provision.

PRODUCT

COUNTRY OF ORIGIN

E. NPDES CERTIFICATION

In accordance with the provisions of the Illinois Environmental Protection Act, the Illinois Pollution Control Board Rules and Regulations (35 Ill. Adm. Code, Subtitle C, Chapter I), and the Clean Water Act, and the regulations thereunder, this certification is required for all construction contracts that will result in the disturbance of five or more acres total land area.

The undersigned bidder certifies under penalty of law that he/she understands the terms and conditions of the general National Pollutant Discharge Elimination System (NPDES) permit (ILR100000) that authorizes the storm water discharges associated with industrial activity from the construction site identified as part of this certification.

The Airport Owner or its Agent will:

- 1) prepare, sign and submit the Notice of Intent (NOI)
- 2) conduct site inspections and complete and file the inspection reports
- 3) submit Incidence of Non-Compliance (ION) forms
- 4) submit Notice of Termination (NOT) form

Prior to the issuance of the Notice-to-Proceed, for each erosion control measure identified in the Storm Water Pollution Prevention Plan, the contractor or subcontractor responsible for the control measure(s) must sign the above certification (forms to be provided by the Department).

F. NON-APPROPRIATION CLAUSE

By submitting a bid/proposal under this solicitation the offeror certifies that he/she understands that obligations of the State will cease immediately without penalty or further payment being required in any fiscal year the Illinois General Assembly fails to appropriate or otherwise make available sufficient funds for this contract.

G. Contractor is not delinquent in the payment of any debt to the State (or if delinquent has entered into a deferred payment plan to pay the debt), and Contractor acknowledges the contracting state agency may declare the contract void if this certification is false (30 ILCS 500/50-11, effective July 1, 2002).

RETURN WITH BID

NOTICE TO BIDDERS

1. **TIME AND PLACE OF OPENING BIDS.** Sealed proposals for the improvement described herein will be received by the Department of Transportation at the Harry R. Hanley Building, 2300 South Dirksen Parkway in Springfield, Illinois until 10:00 o'clock a.m., April 28, 2006. All bids will be gathered, sorted, publicly opened and read in the auditorium at the Department of Transportation's Harry R. Hanley Building shortly after the 10:00 a.m. cut off time.
2. **DESCRIPTION OF WORK.** The proposed improvement, shown in detail on the plans issued by the Department includes, in general, the following described work:

**Install New Edge Lighting Systems on Runway 3-21 and Runway 10-28 and Their Associated Taxiways;
Construct New Electrical Vault for Airfield Lighting**
3. **INSTRUCTIONS TO BIDDERS.** (a) This Notice, the invitation for bids, proposal and award shall, together with all other documents in accordance with Article 10-15 of the Illinois Standard Specifications for Construction of Airports, become part of the contract. Bidders are cautioned to read and examine carefully all documents, to make all required inspections, and to inquire or seek explanation of the same prior to submission of a bid.

(b) State law, and, if the work is to be paid wholly or in part with Federal-aid funds, Federal law requires the bidder to make various certifications as a part of the proposal and contract. By execution and submission of the proposal, the bidder makes the certification contained therein. A false or fraudulent certification shall, in addition to all other remedies provided by law, be a breach of contract and may result in termination of the contract.
4. **AWARD CRITERIA AND REJECTION OF BIDS.** This contract will be awarded to the lowest responsive and responsible bidder considering conformity with the terms and conditions established by the Department in the proposal and contract documents. The issuance of plans and proposal forms for bidding based upon a prequalification rating shall not be the sole determinant of responsibility. The Department reserves the right to determine responsibility at the time of award, to reject any or all proposals, to readvertise the proposed improvement, and to waive technicalities.
5. **PRE-BID CONFERENCE.** There will be a pre-bid conference held at N/A at the Galesburg Municipal Airport administration building. For engineering information, contact Lenny Chaudoin of Hutchison Engineering Inc. at (217) 245-7164.
6. **DISADVANTAGED BUSINESS POLICY.** The DBE goal for this contract is 0.0%.
7. **SPECIFICATIONS AND DRAWINGS.** The work shall be done in accordance with the Illinois Standard Specifications for Construction of Airports, the Illinois Division of Aeronautics Supplemental Specifications and Recurring Special Provisions, the Special Provisions dated March 24, 2006 and the Construction Plans dated March 24, 2006 as approved by the Department of Transportation, Division of Aeronautics.

RETURN WITH BID

- 8. INSPECTION OF RECORDS.** The Contractor shall maintain an acceptable cost accounting system. The Sponsor, the FAA, and the Comptroller General of the United States shall have access to any books, documents, paper, and records of the Contractor which are directly pertinent to the specific contract for the purposes of making an audit, examination, excerpts, and transcriptions. The Contractor shall maintain all required records for three years after the Sponsor makes final payment and all other pending matters are closed.
- 9. RIGHTS TO INVENTIONS.** All rights to inventions and materials generated under this contract are subject to Illinois law and to regulations issued by the FAA and the Sponsor of the Federal grant under which this contract is executed. Information regarding these rights is available from the FAA and the Sponsor.
- 10. TERMINATION OF CONTRACT.**
1. The Sponsor may, by written notice, terminate this contract in whole or in part at any time, either for the Sponsor's convenience or because of failure to fulfill the contract obligations. Upon receipt of such notice services shall be immediately discontinued (unless the notice directs otherwise) and all materials as may have been accumulated in performing this contract, whether completed or in progress, delivered to the Sponsor.
 2. If the termination is for the convenience of the Sponsor, an equitable adjustment in the contract price shall be made, but no amount shall be allowed for anticipated profit on unperformed services.
 3. If the termination is due to failure to fulfill the Contractor's obligations, the Sponsor may take over the work and prosecute the same to completion by contract or otherwise. In such case, the Contractor shall be liable to the Sponsor for any additional cost occasioned to the Sponsor thereby.
 4. If, after notice of termination for failure to fulfill contract obligations, it is determined that the Contractor had not so failed, the termination shall be deemed to have been effected for the convenience of the Sponsor. In such event, adjustment in the contract price shall be made as provided in paragraph 2 of this clause.
 5. The rights and remedies of the sponsor provided in this clause are in addition to any other rights and remedies provided by law or under this contract.

RETURN WITH BID

11. BIDDING REQUIREMENTS AND BASIS OF AWARD. When alternates are included in the proposal, the following shall apply:

a. Additive Alternates

- (1) Bidders must submit a bid for the Base Bid and for all Additive Alternates.
- (2) Award of this contract will be made to the lowest responsible qualified bidder computed as follows:

The lowest aggregate amount of (i) the Base Bid plus (ii) any Additive Alternate(s) which the Department elects to award.

The Department may elect not to award any Additive Alternates. In that case, award will be to the lowest responsible qualified bidder of the Base Bid.

b. Optional Alternates

- (1) Bidders must submit a bid for the Base Bid and for either Alternate A or Alternate B or for both Alternate A and Alternate B.
- (2) Award of this contract will be made to the lowest responsible qualified bidder computed as follows:

The lower of the aggregate of either (i) the Base Bid plus Alternate A or (ii) the Base Bid plus Alternate B.

12. CONTRACT TIME. The Contractor shall complete all work within the specified contract time. Any calendar day extension beyond the specified contract time must be fully justified, requested by the Contractor in writing, and approved by the Engineer, or be subject to liquidated damages.

The contract time for this contract is 150 calendar days and is based on anticipated notice-to-proceed date of June 12, 2006.

13. INDEPENDENT WEIGHT CHECKS. The Department reserves the right to conduct random unannounced independent weight checks on any delivery for bituminous, aggregate or other pay item for which the method of measurement for payment is based on weight. The weight checks will be accomplished by selecting, at random, a loaded truck and obtaining a loaded and empty weight on an independent scale. In addition, the department may perform random weight checks by obtaining loaded and empty truck weights on portable scales operated by department personnel.

14. GOOD FAITH COMPLIANCE. The Illinois Department of Transportation has made a good faith effort to include all statements, requirements, and other language required by federal and state law and by various offices within federal and state governments whether that language is required by law or not. If anything of this nature has been left out or if additional language etc. is later required, the bidder/contractor shall cooperate fully with the Department to modify the contract or bid documents to correct the deficiency. If the change results in increased operational costs, the Department shall reimburse the contractor for such costs as it may find to be reasonable.

RETURN WITH BID

PROPOSAL SIGNATURE SHEET

The undersigned bidder hereby makes and submits this bid on the subject Proposal, thereby assuring the Department that all requirements of the Invitation for Bids and rules of the Department have been met, that there is no misunderstanding of the requirements of paragraph 4 of this Proposal, and that the contract will be executed in accordance with the rules of the Department if an award is made on this bid.

Firm Name _____

(IF AN INDIVIDUAL)

Signature of Owner _____

Business Address _____

Firm Name _____

By _____

(IF A CO-PARTNERSHIP)

Business Address _____

Name and Address of All Members of the Firm:

Corporate Name _____

By _____

Corporate Seal

(IF A CORPORATION)

Attest _____

President

Business Address _____

Corporate Secretary

Name of Corporate Officers:

President Corporate Secretary Treasurer

NOTARY CERTIFICATION

STATE OF ILLINOIS,

ALL SIGNATURES MUST BE NOTARIZED

COUNTY OF _____

I, _____, a Notary Public in and for said county, do hereby certify that _____

AND _____

(Insert names of individual(s) signing on behalf of bidder)

who are each personally known to me to be the same persons whose names are subscribed to the foregoing instrument on behalf of the bidder, appeared before me this day in person and acknowledged that they signed, sealed, and delivered said instrument as their free and voluntary act for the uses and purposes therein set forth.

Given under my hand and notarial seal this _____ day of _____, A.D. _____

My commission expires _____ (Seal)

Notary Public



Return with Bid

Division of Aeronautics
Proposal Bid Bond
(Effective January 1, 2002)

Item No. 6A
Letting Date: April 28, 2006

Airport: Galesburg Municipal Airport
Ill. Proj. No. GBG-3433
Fed. Proj. No. 3-17-0047-B8

KNOW ALL MEN BY THESE PRESENTS. that we, _____, as PRINCIPAL, and _____, as SURETY are held and firmly bound unto the, hereinafter called the SPONSOR, in the penal sum of 5 percent of the total bid price or of the amount specified in Section 6, PROPOSAL GUARANTEE of the Proposal Document, whichever is the lesser sum, well and truly to be paid unto the said SPONSOR, for the payment of which we bind ourselves, our heirs, executors, administrators, successors, and assigns.

THE CONDITION OF THIS OBLIGATION IS SUCH, that whereas the PRINCIPAL has submitted a Bid Proposal to the SPONSOR through its AGENT, the State of Illinois, Department of Transportation, Division of Aeronautics, for the improvement designated by the Transportation Bulletin Item Number and Letting Date indicated above;

NOW, THEREFORE, if the SPONSOR through its AGENT shall accept the Bid Proposal of the PRINCIPAL; and if PRINCIPAL shall within the time and as specified in the Bidding and Contract Documents, submit the DBE Utilization Plan that is acceptable and approved by the AGENT, and if after the award, the PRINCIPAL shall enter into a contract in accordance with the terms of the Bidding and Contract Documents including evidence of insurance coverage's and providing such bond as specified with good and sufficient surety for the faithful performance of such contract and for prompt payment of labor and material furnished in the prosecution thereof; or if, in the event of the failure of the PRINCIPAL to make the required DBE submission or to enter into such contract and to give the specified bond, the PRINCIPAL pays to the SPONSOR the difference not to exceed the penalty hereof between the amount in the Bid Proposal and such larger amount for which the SPONSOR may contract with another party to perform the work covered by said Proposal Document, then, this obligation to be void; otherwise to remain in full force and effect.

IN THE EVENT the SPONSOR acting through its AGENT determines the PRINCIPAL has failed to comply with any requirement as set forth in the preceding paragraph, then the SURETY shall pay the penal sum to the SPONSOR within fifteen (15) days of written demand therefor. If the SURETY does not make full payment within such period of time, the AGENT may bring an action to collect the amount owed. The SURETY is liable to the SPONSOR and to the AGENT for all its expenses, including attorney's fees, incurred in any litigation in which SPONSOR or AGENT prevail either in whole or in part.

IN WITNESS WHEREOF, the said PRINCIPAL and the said SURETY have caused this instrument to be signed by

their respective officers this _____ day of _____ A.D., 20 ____.

PRINCIPAL

SURETY

(Company Name)

(Company Name)

By: _____ (Signature & Title)

By: _____ (Signature of Attorney-in-Fact)

Notary Certification for Principal and Surety

State of Illinois)
) ss:
County of _____)

I, _____, a Notary Public in and for said County, do hereby certify that _____ and _____ (Insert names of individuals signing on behalf of PRINCIPAL & SURETY)

who are each personally known to me to be the same persons whose names are subscribed to the foregoing instrument on behalf of PRINCIPAL and SURETY, appeared before me this day in person and acknowledged respectively, that they signed and delivered said instrument as their free and voluntary act for uses and purposes therein set forth.

Given under my hand and notary seal this _____ day of _____ A.D., 20 ____

My commission expires _____ (Notary Public)

In lieu of completing the above section of the Proposal Bid Form, the PRINCIPAL may file an Electronic Bid Bond. By signing below, the PRINCIPAL is ensuring the identified electronic bid bond has been executed and the PRINCIPAL and SURETY are firmly bound to the SPONSOR through its AGENT under the conditions of the Bid Bond as shown above.

Electronic Bid Bond ID#

Company/Bidder Name

Signature and Title
Form D.E. (Rev. 12-2001)



PROPOSALS

for construction work advertised for bids by the
Illinois Department of Transportation

Item No.	Item No.	Item No.

Submitted By:

Name:
Address:
Phone No.

Bidders should affix this form to the front of a 10" x 13" envelope and use that envelope for the submittal of bids. If proposals are mailed, they should be enclosed in a second or outer envelope addressed to:

Engineer of Design and Environment - Room 323
Illinois Department of Transportation
2300 South Dirksen Parkway
Springfield, Illinois 62764

CONTRACTOR OFFICE COPY OF CONTRACT SPECIFICATIONS

NOTICE

None of the following material needs to be returned with the bid package unless the special provisions require documentation and/or other information to be submitted.



Illinois Department of Transportation

CONTRACT REQUIREMENTS

(1) Airport Improvement Program projects. The work in this contract is included in the federal Airport Improvement Program and is being undertaken and accomplished by the Illinois Department of Transportation, Division of Aeronautics and the Municipality, hereinafter called the Co-Sponsors, in accordance with the terms and conditions of a Grant Agreement between the Co-Sponsors and the United States, under the Airport and Airway Improvement Act of 1982 (Public Law 97-248; Title V, Section 501 et seq., September 3, 1982; 96 Stat. 671; codified at 49 U.S.C Section 2201 et seq.) and Part 152 of the Federal Aviation Regulations (14 CFR Part 152), pursuant to which the United States has agreed to pay a certain percentage of the costs of the Project that are determined to be allowable Project costs under the Act. The United States is not a party to this contract and no reference in this contract to FAA or representative thereof, or to any rights granted to the FAA or any representative thereof, or the United States, by the contract, makes the United States a party to this contract.

(2) Consent of Assignment. The Contractor shall obtain the prior written consent of the Co-Sponsors to any proposed assignment of any interest in or part of this contract.

(3) Convict Labor. No convict labor may be employed under this contract.

(4) Veterans Preference. In the employment of labor, except in executive, administrative, and supervisory positions, preference shall be given to veterans of the Vietnam era and disabled veterans as defined in Section 515(c) of the Airport and Airway Improvement Act of 1982. However, this preference shall apply only where the individuals are available and qualified to perform the work to which the employment relates.

(5) Withholding: Sponsor from Contractor. Whether or not payments or advances to the Co-Sponsors are withheld or suspended by the FAA, the Co-Sponsors may withhold or cause to be withheld from the Contractor so much of the accrued payments or advances as may be considered necessary to pay laborers and mechanics employed by the Contractor or any subcontractor on the work the full amount of wages required by this contract.

(6) Nonpayment of Wages. If the Contractor or subcontractor fails to pay any laborer or mechanic employed or working on the site of the work any of the wages required by this contract the Co-Sponsors may, after written notice to the Contractor, take such action as may be necessary to cause the suspension of any further payment or advance of funds until the violations cease.

(7) FAA Inspection and Review. The Contractor shall allow any authorized representative of the FAA to inspect and review any work or materials used in the performance of this contract.

(8) Subcontracts. The Contractor shall insert in each of his subcontracts the provisions contained in Paragraphs (1), (3), (4), (5), (6), and (7) above and also a clause requiring the subcontractors to include these provisions in any lower tier subcontracts which they may enter into, together with a clause requiring this insertion in any further subcontracts that may in turn be made.

(9) Contract Termination. A breach of Paragraph (6), (7), and (8) above may be grounds for termination of the contract.

PROVISIONS REQUIRED BY THE REGULATIONS OF THE SECRETARY OF LABOR 29 CFR 5.5

(a) Contract Provisions and Related Matters.

(1) Minimum Wages.

Revised 1/92

(i) All laborers and mechanics employed or working upon the site of the work will be paid unconditionally and not less often than once a week, and without subsequent deduction or rebate on any account (except such payroll deductions as are permitted by regulations issued by the Secretary of Labor under the Copeland Act (29 CFR Part 3)), the full amount of wages and bona fide fringe benefits (or cash equivalents thereof) due at time of payment computed at rates not less than those contained in the wage determination of the Secretary of Labor which is attached hereto and made a part hereof, regardless of any contractual relationship which may be alleged to exist between the Contractor and such laborers and mechanics. Contributions made or costs reasonably anticipated for bona fide fringe benefits under section 1(b)(2) of the Davis-Bacon Act on behalf of laborers or mechanics are considered wages paid to such laborers or mechanics, subject to the provision of paragraph (a)(1)(iv) of this section; also, regular contributions made or costs incurred for more than a weekly period (but not less often than quarterly) under plans, funds, or programs which cover the particular weekly period, are deemed to be constructively made or incurred during such weekly period. Such laborers and mechanics shall be paid the appropriate wage rate and fringe benefits on the wage determination for the classification of work actually performed, without regard to skill, except as provided in paragraph 5.5(a)(4). Laborers or mechanics performing work in more than one classification may be compensated at the rate specified for each classification for the time actually worked therein: provided, that the employer's payroll records accurately set forth the time spent in each classification in which work is performed. The wage determination (including any additional classification and wage rates conformed under paragraph (a)(1)(ii) of this section) and the Davis-Bacon poster (WH-1321) shall be posted at all times by the Contractor and its subcontractors at the site of the work in a prominent and accessible place where it can be easily seen by the workers.

(ii)(A) The contracting officer shall require that any class of laborers or mechanics which is not listed in the wage determination and which is to be employed under the contract shall be classified in conformance with the wage determination. The contracting officer shall approve an additional classification and wage rate and fringe benefits therefor only when the following criteria have been met:

- (1) The work to be performed by the classification requested is not performed by a classification in the wage determination; and
- (2) The classification is utilized in the area by the construction industry; and
- (3) The proposed wage rate, including any bona fide fringe benefits, bears a reasonable relationship to the wage rates contained in the wage determination.

(ii)(B) If the Contractor and the laborers and mechanics to be employed in the classification (if known), or their representatives, and the contracting officer agree on the classification and wage rate (including the amount designated for fringe benefits where appropriate), a report of the action taken shall be sent by the contracting officer to the Administrator of the Wage and Hour Division, Employment Standards Administration, U.S. Department of Labor, Washington, D.C. 20210. The Administrator, or an authorized representative, will approve, modify, or disapprove every additional classification action within 30 days of receipt and so advise the contracting officer or will notify the contracting officer within the 30-day period that additional time is necessary. (Approved by the Office of Management and Budget under OMB control number 1215-0140).

(ii)(C) In the event the Contractor, the laborers or mechanics to be employed in the classification or their representatives, and the contracting officer do not agree on the proposed classification and wage rate (including the amount designated for fringe benefits, where appropriate), the contracting officer shall refer the questions, including the views of all interested parties and the recommendation of the contracting officer, to the Administrator for determination. The Administrator, or an authorized representative, will issue a determination within 30 days of receipt and so advise the contracting officer or will notify the contracting officer within the 30-day period that additional time is necessary. (Approved by the Office of Management and Budget under OMB control number 1215-0140).

(ii)(D) The wage rate (including fringe benefits where appropriate) determined pursuant to subparagraphs (1)(B) or (C) of this paragraph, shall be paid to all workers performing work in the classification under this contract from the first day on which work is performed in the classification.

(iii) Whenever the minimum wage rate prescribed in the contract for a class of laborers or mechanics includes a fringe benefit which is not expressed as an hourly rate, the Contractor shall either pay the benefit as stated in the wage determination or shall pay another bona fide fringe benefit or an hourly cash equivalent thereof.

(iv) If the Contractor does not make payments to a trustee or other third person, the Contractor may consider as part of the wages of any laborer or mechanic the amount of any costs reasonably anticipated in providing bona fide fringe benefits under a plan or program, provided, that the Secretary of Labor has found, upon the written request of the Contractor, that the applicable standards of the Davis-Bacon Act have been met. The Secretary of Labor may require the Contractor to set aside in a separate account assets for the meeting of obligations under the plan or program. (Approved by the Office of Management and Budget under OMB control number 1215-0140).

(2) Withholding. The Federal Aviation Administration shall upon its own action or written request of an authorized representative of the Department of Labor withhold or cause to be withheld from the Contractor under this contract or any other Federal contract with the same prime Contractor, or any other Federally-assisted contract subject to Davis-Bacon prevailing wage requirements, which is held by the same prime Contractor, so much of the accrued payments or advances as may be considered necessary to pay laborers and mechanics, including apprentices, trainees, and helpers, employed by the Contractor or any subcontractor the full amount of wages required by the contract. In the event of failure to pay any laborer or mechanic, including any apprentice, trainee, or helper, employed or working on the site of the work, all or part of the wages required by the contract, the (Agency) may, after written notice to the Contractor, sponsor, applicant, or owner, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds until such violations have ceased.

(3) Payrolls and basic records.

(i) Payrolls and basic records relating thereto shall be maintained by the Contractor during the course of the work and preserved for a period of three years thereafter for all laborers and mechanics working at the site of the work. Such records shall contain the name, address, and social security number of each such work, his or her correct classification, hourly rates of wages paid (including rates of contributions or costs anticipated for bona fide fringe benefits or cash equivalents thereof of the types described in section 1(b)(2)(B) of the Davis-Bacon Act), daily and weekly number of hours worked, deductions made and actual wages paid. Whenever the Secretary of Labor has found under 29 CFR 5.5(a)(1)(iv) that the wages of any laborer or mechanic include the amount of any costs reasonably anticipated in providing benefits under a plan or program described in section 1(b)(2)(B) of the Davis-Bacon Act, the Contractor shall maintain records which show that the commitment to provide such benefits is enforceable, that the plan or program is financially responsible, and that the plan or program has been communicated in writing to the laborers or mechanics affected, and records which show the costs anticipated or the actual cost incurred in providing such benefits. Contractors employing apprentices or trainees under approved programs shall maintain written evidence of the registration of apprenticeship programs and certification of trainee programs, the registration of the apprentices and trainees, and the ratios and wage rates prescribed in the applicable programs. (Approved by the Office Management and Budget under OMB control numbers 1215-0140 and 1215-0017).

(ii)(A) The Contractor shall submit weekly for each week in which any contract work is performed a copy of all payrolls to the Federal Aviation Administration if the agency is a party to the contract, but if the agency is not such a party, the Contractor will submit the payrolls to the applicant, sponsor, or owner, as the case may be, for transmission to the Federal Aviation Administration. The payrolls submitted shall set out accurately and completely all of the information required to be maintained under paragraph 5.5(a)(3)(i) of Regulations, 29 CFR Part 5. This information may be submitted in any form desired.

Optional Form WH-347 is available for this purpose and may be purchased from the Superintendent of Documents (Federal Stock Number 029-005-00014-1), U.S. Government Printing Office, Washington, D.C. 20402. The prime Contractor is responsible for the submission of copies of payrolls by all subcontractors. (Approved by the Office of Management and Budget under OMB control number 1215-0149).

(ii)(B) Each payroll submitted shall be accompanied by a "Statement of Compliance," signed by the Contractor, or subcontractor or his or her agent who pays or supervises the payment of the persons employed under the contract and shall certify the following:

(1) That the payroll for the payroll period contains the information required to be maintained under paragraph 5.5(a)(3)(i) of Regulations, 29 CFR Part 5 and that such information is correct and complete;

(2) That each laborer or mechanic (including each helper, apprentice, and trainee) employed on the contract during the payroll period has been paid the full weekly wages earned, without rebate, either directly or indirectly, and that no deductions have been made either directly or indirectly from the full wages earned, other than permissible deductions as set forth in Regulations, 29 CFR Part 3;

(3) That each laborer or mechanic has been paid not less than the applicable wage rates and fringe benefits or cash equivalents for the classification of work performed as specified in the applicable wage determination incorporated into the contract.

(ii)(C) The weekly submission of a properly executed certification set forth on the reverse side of Optional Form WH-347 shall satisfy the requirement for submission of the "Statement of Compliance" required by paragraph (a)(3)(ii)(B) of this section.

(ii)(D) The falsification of any of the above certifications may subject the Contractor or subcontractor to civil or criminal prosecution under Section 1001 of Title 18 and Section 231 of Title 31 of the United States Code.

(iii) The Contractor or subcontractor shall make the records required under paragraph (a)(3)(i) of this section available for inspection, copying, or transcription by authorized representatives of the (write the name of the agency) or the Department of Labor, and shall permit such representatives to interview employees during working hours on the job. If the Contractor or subcontractor fails to submit the required records or to make them available, the Federal agency may, after written notice to the Contractor, sponsor, applicant, or owner, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds. Furthermore, failure to submit the required records upon request or to make such records available may be grounds for debarment action pursuant to 29 CFR 5.12.

(4) Apprentices and Trainees

(i) Apprentices. Apprentices will be permitted to work at less than the predetermined rate for the work they performed when they are employed pursuant to and individually registered in a bona fide apprenticeship program registered with the U.S. Department of Labor, Employment and Training Administration, Bureau of Apprenticeship and Training, or with a State Apprenticeship Agency recognized by the Bureau, or if a person is employed in his or her first 90 days of probationary employment as a apprentice in such an apprenticeship program, who is not individually registered in the program, but who has been certified by the Bureau of Apprenticeship and Training or a State Apprenticeship Agency (where appropriate) to be eligible for probationary employment as an apprentice. The allowable ratio of apprentices to journeymen on the job site in any craft classification shall not be greater than the ratio permitted to the Contractor as to the entire work force under the registered program. Any worker listed on a payroll at an apprentice wage rate, who is not registered or otherwise employed as stated above, shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any apprentice performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed. Where a Contractor is performing construction on a project in a locality other than that in which its program is registered, the ratios and wage rates (expressed in percentages of the journeyman's hourly rate) specified in the Contractor's or subcontractor's registered program shall be observed. Every apprentice must be paid at not less than the rate specified in the registered program for the apprentice's level of progress, expressed as a percentage of the journeymen hourly rate specified in the applicable wage determination. Apprentices shall be paid fringe benefits in accordance with the provisions of the apprenticeship program. If the apprenticeship program does not specify fringe benefits, apprentices must be paid the full amount of fringe benefits listed on the wage determination for the applicable classification. If the Administrator determines that a different practice prevails for the applicable apprentice classification, fringes shall be paid in accordance with that determination. In the event the Bureau of Apprenticeship and Training, or a State Apprenticeship Agency recognized by the Bureau, withdraws approval of an apprenticeship program, the Contractor will no longer be permitted to utilize apprentices at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

(ii) Trainees. Except as provided in 29 CFR 5.16, trainees will not be permitted to work at less than the predetermined rate for the work performed unless they are employed pursuant to and individually registered in a program which has received prior approval, evidenced by formal certification by the U.S. Department of Labor, Employment and Training Administration. The ratio of trainees to journeymen on the job site shall not be greater than permitted under the plan approved by the Employment and Training Administration. Every trainee must be paid at not less than the rate specified in the approved program for the trainee's level of progress, expressed as a percentage of the journeyman hourly rate specified in the applicable wage determination. Trainees shall be paid fringe benefits in accordance with the provisions of the trainee program. If the trainee program does not mention fringe benefits, trainees shall be paid the full amount of fringe benefits listed on the wage determination unless the Administrator of the Wage and Hour Division determines that there is an apprenticeship program associated with the corresponding journeyman wage rate on the wage determination which provides for less than full fringe benefits for apprentices. Any employee listed on the payroll at a trainee rate who is not registered and participating in a training plan approved by the Employment and Training Administration shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any trainee performing work on the job site in excess of the ration permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed. In the event the Employment and Training Administration withdraws approval of a training program, the contract will no longer be permitted to utilize trainees at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

(iii) Equal employment opportunity. The utilization of apprentices, trainees and journeymen under this part shall be in conformity with the equal employment opportunity requirements of Executive Order 11246, as amended, and 29 CFR Part 30.

(5) Compliance with Copeland Act requirements. The Contractor shall comply with the requirements of 29 CFR Part 3, which are incorporated by reference in this contract.

(6) Subcontracts. The Contractor or subcontractor shall insert in any subcontracts the clauses contained in paragraph (a)(1) through (10) of this contract and such other clauses as the Federal Aviation Administration may by appropriate instructions require, and also a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime Contractor shall be responsible for the compliance by an subcontractor or lower tier subcontractor with all the contract clauses in 29 CFR 5.5.

(7) Contract determination: debarment. A breach of these contract clauses paragraphs (a)(1) through (10) and the 2nd clause (b)(1) through (5) below may be grounds for termination of the contract and for debarment as a Contractor and a subcontractor as provided in 29 CFR 5.12.

(8) Compliance with Davis-Bacon and Related Act requirements. All rulings and interpretations of the Davis-Bacon and Related Acts contained in 29 CFR Parts 1, 3, and 5 are herein incorporated by referenced in this contract.

(9) Disputes concerning labor standards. Disputes arising out of the labor standards provisions of this contract shall not be subject to the general disputes clause of this contract. Such disputes shall be resolved in accordance with the procedures of the Department of Labor set forth in 29 CFR Parts 5, 6, and 7. Disputes within the meaning of this clause include disputes between the Contractor (or any of its subcontractors) and the contracting agency, the U.S. Department of Labor, or the employees or their representatives.

(10) Certification of Eligibility.

(i) By entering into this contract, the Contractor certifies that neither it (nor he or she) nor any person or firm who has an interest in the Contractor's firm is a person or firm ineligible to be awarded Government contracts by virtue of section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1).

(ii) No part of this contract shall be subcontracted to any person or firm ineligible for award of a Government contract by virtue of section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1).

(iii) The penalty for making false statements is prescribed in the U.S. Criminal Code, 18 U.S.C. 1001.

(b) Contract Work Hours and Safety Standards Act. The Agency Head shall cause or require the contracting officer to insert the following clauses set forth in paragraphs (b)(1), (2), (3), (4) and (5) of this section in full in AIP construction contracts in excess of \$2,000. These clauses shall be inserted in addition to the clauses required by paragraph 5.5(a) or paragraph 4.6 of Part 4 of this title. As used in this paragraph, the terms "laborers" and "mechanics" include watchmen and guards.

(1) Overtime requirements: No Contractor or subcontractor contracting for any part of the contract work which may require or involve the employment of laborers, mechanics, watchmen or guards (including apprentices and trainees described in paragraphs 5 and 6 above) shall require or permit any laborer, mechanic, watchman or guard in any workweek in which he/she is employed on such work, to work in excess of 40 hours in such workweek unless such laborer, mechanic, watchman or guard receives compensation at a rate not less than one and one-half times his/her basic rate of pay for all hours worked in excess of 40 hours in such workweek.

(2) Violations: Liability for Unpaid Wages; Liquidated Damages: In the event of any violation of the clause set forth in subparagraph (1) of this paragraph, the Contractor and any subcontractor responsible therefore shall be liable to any affected employee for his/her unpaid wages. In addition, such Contractor and subcontractor shall be liable to the United States (in case of work done under contract for the District of Columbia or a territory, to such District or to such territory), for liquidated damages. Such liquidated damages shall be computed with respect to each individual laborer, mechanic, watchman or guard employed in violation of the clause set forth in subparagraph (1) of this paragraph, in the sum of \$10.00 for each calendar day on which such employee was required or permitted to work in excess of the standard workweek of 40 hours without payment of the overtime wages required by the clause set forth in subparagraph (1) of this paragraph.

(3) Withholding for unpaid wages and liquidated damages. The (write in the name of the Federal agency or the loan or grant recipient) shall upon its own action or upon written request of an authorized representative of the Department of Labor withhold or cause to be withheld, from any moneys payable on account of work performed by the Contractor or subcontractor under any such contract or any other Federal contract with the same prime Contractor, or any other Federally-assisted contract subject to the Contract Work Hours and Safety Standards Act, which is held by the same prime Contractor, such sums as may be determined to be necessary to satisfy any liabilities of such Contractor or subcontractor for unpaid wages and liquidated damages as provided in the clause set forth in subparagraph (2) of this paragraph.

(4) Subcontracts. The Contractor or subcontractor shall insert in any subcontracts the clauses set forth in subparagraph (1) through (4) of this paragraph and also a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime Contractor shall be responsible for compliance by any subcontractor or lower tier subcontractor with the clauses set forth in subparagraphs (1) through (4) of this paragraph.

(5) Working Conditions. No Contractor or subcontractor may require any laborer or mechanic employed in the performance of any contract to work in surroundings or under working conditions that are unsanitary, hazardous, or dangerous to his health or safety as determined under construction safety and health standards (29 CFR 1926) issued by Department of Labor.

(c) In addition to the clauses contained in paragraph (b), in any contract subject only to the Contract Work Hours and Safety Standards Act and not to any of the other statutes cited in paragraph 5.1, the Agency Head shall cause or require the contracting officer to insert a clause requiring that the Contractor or subcontractor shall maintain payrolls and basic payroll records during the course of the work and shall preserve them for a period of three years from the completion of the contract for all laborers and mechanics, including guards and watchmen, working on the contract. Such records shall contain the name and address of each such employee, social security number, correct classifications, hourly rates of wages paid, daily and weekly number of hours worked, deductions made, and actual wages paid. Further, the Agency Head shall cause or require the contracting officer to insert in any such contract a clause providing that the records to be maintained under this paragraph shall be made available by the Contractor or subcontractor for inspection, copying, or transcription by authorized representatives of the (write the name of agency) and the Department of Labor, and the Contractor or subcontractor will permit such representatives to interview employees during working hours on the job. (Approved by the Office of Management and Budget under OMB control numbers 1215-0140 and 1215-0017).

FEDERAL REGULATIONS VOL. 40, #74,
WEDNESDAY, APRIL 16, 1975, PAGE 17124,
ADMINISTRATION OF THE CLEAR AIR ACT
& WATER POLLUTION CONTROL ACT
(with respect to Federal Grants)

In connection with the administration of the Clean Air Act and the Water Pollution Control Act with respect to Federal Grants, specific requirements have been imposed of any contract which is not exempt under the provisions of 40 CFR 15.5.

(1) Any facility listed on the EPA List of Violating Facilities pursuant to Paragraph 15.20 of 40 CFR as of the date of the contract award will not be utilized in the performance of any non-exempt contract or subcontract.

(2) The Contractor shall comply with all the requirements of Section 114 of the Clean Air Act, as amended, 42 USC 1857 et seq. and Section 308 of the Federal Water Pollution Control Act, as amended, 33 USC 1251 et seq. relating to inspection, monitoring, entry, reports and information, as well as all other requirements specified in Section 114 and Section 308 of the Air Act and Water Act, respectively, and all regulations and guidelines issued thereunder after the award of the contract.

(3) Prompt notification shall be required prior to contract award to the awarding official by the Contractor who will receive the award of the receipt of any communication from the Director, Office of Federal Activities, U.S. Environmental Protection Agency, indicating that a facility to be utilized for the contract is under consideration to be listed on the EPA List of Violating Facilities.

(4) The Contractor shall include or cause to be included the criteria and requirements in paragraphs 1 through 4 in any non-exempt subcontract and will take such action as the Government may direct as a means of enforcing such provisions.

Attachment No. 1

During the performance of the contract, the Contractor agrees as follows:

- (1) The Contractor will not discriminate against any employee or applicant for employment because of race, color, religion, sex or national origin. The Contractor will take affirmative action to ensure that applicants are employed, and that employees are treated during employment without regard to their race, color, religion, sex or national origin. Such action shall include, but not be limited to the following: Employment, upgrading, demotion or transfer, recruitment or recruitment advertising, layoff or termination, rates of pay or other forms of compensation, and selection for training including apprenticeship. The Contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided setting forth the provisions of this nondiscrimination clause.
- (2) The Contractor will, in all solicitations or advertisements for employees placed by or on the behalf of the Contractor, state that all qualified applicants will receive consideration for employment without regard to race, color, religion, sex or national origin.
- (3) The Contractor will send to each labor union or representative of workers with which he has a collective bargaining agreement or other contract or understanding, a notice to be provided advising the said labor union or worker's representatives of the Contractor's commitments under this section, and shall post copies of the notice in conspicuous places available to employees and applicants for employment.
- (4) The Contractor will comply with all provisions of Executive Order 11246 of September 24, 1965, and of the rules, regulations, and relevant orders of the Secretary of Labor.
- (5) The Contractor will furnish all information and reports required by Executive Order 11246 of September 24, 1965, and by rules, regulations and orders of the Secretary of Labor, or pursuant thereto, and will permit access to his books, records, and accounts by the administering agency and the Secretary of Labor for purposes of investigation to ascertain compliance with such rules, regulations, and orders.
- (6) In the event of the Contractor's noncompliance with the nondiscrimination clauses of this contract or with any of the said rules, regulations, or orders, this contract may be canceled, terminated, or suspended in whole or in part and the Contractor may be declared ineligible for further government contracts or federally assisted construction contracts in accordance with procedures authorized in Executive Order 11246 of 24 September 1965, and such other sanctions may be imposed and remedies invoked as provided in Executive Order 11246 of 24 September 1965, or by rule, regulation or order of the Secretary of Labor, or as otherwise provided by law.
- (7) The Contractor will include the portion of the sentence immediately preceding paragraph (1) and the provisions of paragraphs (1) through (7) in every subcontract or purchase order unless exempted by rules, regulations, or orders of the Secretary of Labor issued pursuant to Section 204 of Executive Order 11246 of 24 September 1965, so that such provisions will be binding upon each subcontractor or vendor. The Contractor will take such action with respect to any subcontract or purchase order as the administering agency may direct as means of enforcing such provisions, including sanctions for noncompliance; provided, however, that in the event a Contractor becomes involved in, or is threatened with, litigation with a subcontractor or vendor as a result of such direction by the administering agency, the Contractor may request the United States to enter into such litigation to protect the interests of the United States.

ATTACHMENT NO. 2

EACH PRIME CONTRACTOR SHALL INSERT IN EACH SUBCONTRACT THE CERTIFICATION IN APPENDIX B, AND FURTHER, SHALL REQUIRE ITS INCLUSION IN ANY LOWER TIER SUBCONTRACT, PURCHASE ORDER, OR TRANSACTION THAT MAY IN TURN BE MADE.

- Appendix B of 49 CFR Part 29 -

This certification applies to subcontractors, material suppliers, vendors and other lower tier participants.

Appendix B--Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion--Lower Tier Covered Transactions

Instructions for Certification

1. By signing and submitting this proposal, the prospective lower tier participant is providing the certification set out below.

2. The certification in this clause is a material representation of fact upon which reliance was placed when this transaction was entered into. If it is later determined that the prospective lower tier participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the department or agency with which this transaction originated may pursue available remedies, including suspension and/or debarment.

3. The prospective lower tier participant shall provide immediate written notice to the person to which this proposal is submitted if at any time the prospective lower tier participant learns that its certification was erroneous when submitted or has become erroneous by reason of changed circumstances.

4. The terms "covered transaction," "debarred," "suspended," "ineligible," "lower tier covered transaction," "participant," "person," "primary covered transaction," "principal," "proposal," and "voluntarily excluded," as used in this clause sections of rules implementing Executive Order 12549. You may contact the person to which this proposal is submitted for assistance in obtaining a copy of those regulations.

5. The prospective lower tier participant agrees by submitting this proposal that, should the proposed covered transaction be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the department or agency with which this transaction originated.

6. The prospective lower tier participant further agrees by submitting this proposal that it will include this clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion--Lower Tier Covered Transaction," without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions.

7. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that it is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant may decide the method and frequency by which it determines the eligibility of its principals. Each participant may, but is not required to, check the Nonprocurement List.

8. Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of a participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.

9. Except for transactions authorized under paragraph 5 of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the department or agency with which this transaction originated may pursue available remedies, including suspension and/or debarment.

Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion--Lower Tier Covered Transactions

(1) The prospective lower tier participant certifies, by submission of this proposal, that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any Federal department or agency.

(2) Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

STATE REQUIRED CONTRACT PROVISIONS
ALL FEDERAL-AID CONSTRUCTION CONTRACTS

Effective February 1, 1969
Revised January 2, 1973

The following provisions are State of Illinois requirements and are in addition to the Federal requirements.

"EQUAL EMPLOYMENT OPPORTUNITY"

In the event of the Contractor's noncompliance with any provisions of this Equal Employment Opportunity Clause, the Illinois Fair Employment Practices Act or the Fair Employment Practices Commission's Rules and Regulations for Public Contracts, the Contractor may be declared nonresponsible and therefore ineligible for future contracts or subcontracts with the State of Illinois or any of its political subdivisions or municipal corporations, and the contract may be canceled or avoided in whole or in part, and such other sanctions or penalties may be imposed or remedies invoked as provided by statute or regulation.

During the performance of this contract, the Contractor agrees as follows:

- (1) That it will not discriminate against any employee or applicant for employment because of race, color, religion, sex, national origin or ancestry; and further that it will examine all job classifications to determine if minority persons or women are underutilized and will take appropriate affirmative action to rectify any such underutilization.
- (2) That, if it hires additional employees in order to perform this contract or any portion hereof, it will determine the availability (in accordance with the Commission's Rules and Regulations for Public Contracts) of minorities and women in the area(s) from which it may reasonably recruit and it will hire for each job classification for which employees are hired in such a way that minorities and women are not underutilized.
- (3) That, in all solicitations or advertisements for employees placed by it or on its behalf, it will state that all applicants will be afforded equal opportunity without discrimination because of race, color, religion, sex, national origin or ancestry.
- (4) That it will send to each labor organization or representative of workers with which it has or is bound by a collective bargaining or other agreement or understanding, a notice advising such labor organization or representative of the Contractor's obligations under the Illinois Fair Employment Practices Act and the Commission's Rules and Regulations for Public Contracts. If any such labor organization or representative fails or refuses to cooperate with the Contractor in its efforts to comply with such Act and Rules and Regulations, the Contractor will promptly so notify the Illinois Fair Employment Practices Commission and the contracting agency and will recruit employees from other sources when necessary to fulfill its obligations thereunder.
- (5) That it will submit reports as required by the Illinois Fair Employment Practices Commission's Rules and Regulations for Public Contracts, furnish all relevant information as may from time to time be requested by the Commission or the contracting agency, and in all respects comply with the Illinois Fair Employment Practices Act and the Commission's Rules and Regulations for Public Contracts.
- (6) That it will permit access to all relevant books, records, accounts and work sites by personnel of the contracting agency and the Illinois Fair Employment Practices Commission for purposes of investigation to ascertain compliance with the Illinois Fair Employment Practices Act and the Commission's Rules and Regulations for Public Contracts.
- (7) That it will include verbatim or by reference the provisions of paragraphs 1 through 7 of this clause in every performance subcontract as defined in Section 2.10(b) of the Commission's Rules and Regulations for Public Contracts so that such provisions will be binding upon every subcontractor; and that it will also so include the provisions or paragraphs 1, 5, 6 and 7 in every supply subcontract as defined in Section 2.10(a) of the Commission's Rules and Regulations for Public Contracts so that such provisions will be binding upon every such subcontractor. In the same manner as with other provisions of this contract, the Contractor will be liable for compliance with applicable provisions of this clause by all its subcontractors; and further it will promptly notify the contracting agency and the Illinois Fair Employment Practices Commission in the event any subcontractor fails or refuses to comply therewith. In addition, no Contractor will utilize any subcontractor declared by the Commission to be nonresponsible and therefore ineligible for contracts or subcontracts with the State of Illinois or any of its political subdivisions or municipal corporations.

CONSTRUCTION CONTRACT PROCUREMENT POLICIES

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SECTION 1

PROPOSAL REQUIREMENTS AND CONDITIONS

1-01 ADVERTISEMENT (Notice to Bidders). The State of Illinois shall publish the advertisement at such places and at such times as are required by local law or ordinances. The published advertisement shall state the time and place for submitting sealed proposals; a description of the proposed work; instructions to bidders as to obtaining proposal forms, plans, and specifications; proposal guaranty required; and the Owner's right to reject any and all bids.

For Federally assisted contracts the advertisement shall conform to the requirements of local laws and ordinances pertaining to letting of contracts and, in addition, shall conform to the requirements of the appropriate parts of the Federal Aviation Regulations applicable to the particular contract being advertised.

1-02 PREQUALIFICATION OF BIDDERS.

- (a) When the awarding authority is the State of Illinois, each prospective bidder, prior to being considered for issuance of any proposal forms will be required to file, on forms furnished by the Department, an experience questionnaire and a confidential financial statement in accordance with the Department's Instructions for Prequalification of Contractors. The Statement shall include a complete report of the prospective bidder's financial resources and liabilities, equipment, past record and personnel, and must be submitted at least thirty (30) days prior to the scheduled opening of bids in which the Contractor is interested.

After the Department has analyzed the submitted "Contractor's Statement of Experience and Financial Condition" and related information and has determined appropriate ratings, the Department will issue to the Contractor a "Certificate of Eligibility". The Certificate will permit the Contractor to obtain proposal forms and plans for any Department of Transportation letting on work which is within the limits of the Contractor's potential as indicated on his "Certificate of Eligibility", subject to any limitations due to present work under contract or pending award as determined from the Contractor's submitted "Affidavit of Availability". Bidders intending to consistently submit proposals shall submit a "Contractor's Statement of Experience and Financial Condition" at least once a year. However, prequalification may be changed during that period upon the submission of additional favorable reports or upon reports of unsatisfactory performance.

Before a proposal is issued, the prospective bidder will be required to furnish an "Affidavit of Availability" indicating the location and amount of all uncompleted work under contract, or pending award, either as principal or subcontractor, as well as a listing of all subcontractors and value of work sublet to others. The prospective bidder may be requested to file a statement showing the amount and condition of equipment which will be available.

Before an award is made, the bidder may be required to furnish an outline of his plans for conducting the work.

- (b) When the awarding authority for contract construction work is the County Board of a county; the Council, the City Council, or the President and Board of Trustees of a city, village or town, each prospective bidder, in evidence of his competence, shall furnish the awarding authority as a prerequisite to the release of proposal forms by the awarding authority, a certified or photostatic copy of a "Certificate of Eligibility" issued by the Department of Transportation, in accordance with Section 1-02(a).

The two low bidders must file within 24 hours after the letting a sworn affidavit, in triplicate, showing all uncompleted contracts awarded to them and all low bids pending award for Federal, State, County, Municipal and private work, using the blank form made available for this affidavit. One copy shall be filed with the awarding authority and two copies with the District Highway Office.

1-03 CONTENTS OF PROPOSAL FORMS. Upon request, the Department will furnish the prequalified bidders a proposal form. This form will state the location and description of the contemplated construction and will show the estimate of the various quantities and kinds of work to be performed or materials to be furnished, and will have a schedule of items for which unit bid prices are invited. The proposal form will state the time in which work must be completed, the amount of the proposal guaranty, labor requirements, and date, time and place of the opening of proposals. The form will also include any special provisions or requirements which vary from or are not contained in these specifications.

All papers bound with or attached to the proposal form are considered a part thereof and must not be detached or altered when the proposal is submitted. Any addenda officially issued by the Department, will be considered a part of the proposal whether attached or not.

For Federally assisted contracts, the proposal shall conform to the requirements of local laws and ordinances pertaining to letting of contracts and, in addition, shall conform to the requirements of the appropriate parts of the Federal Aviation Regulations pertaining to the particular contract being let.

1-04 ISSUANCE OF PROPOSAL FORMS. The Department shall refuse to issue a proposal form for any of the following reasons:

- (a) Lack of competency and adequate machinery, plant and other equipment, as revealed by the financial statement and experience questionnaires required under Section 1-02(a).
- (b) Uncompleted work which, in the judgment of the Department, might hinder or prevent the prompt completion of additional work if awarded.
- (c) False information provided on a bidder's "Affidavit of Availability".
- (d) Failure to pay, or satisfactorily settle, all bills due for labor and material on former contracts in force at the time of issuance of proposal forms.
- (e) Failure to comply with any prequalification regulations of the Department.
- (f) Default under previous contracts.
- (g) Unsatisfactory performance record as shown by past work for the Department, judged from the standpoint of workmanship and progress.
- (h) When the Contractor is suspended from eligibility to bid at a public letting where the contract is awarded by, or require approval of, the Department.
- (i) When any agent, servant, or employee of the prospective bidder currently serves as a member, employee, or agent of a governmental body that is financially involved in the proposed work.
- (j) When any agent, servant, or employee of the prospective bidder has participated in the preparation of plans or specifications for the proposed work.

1-05 INTERPRETATION OF QUANTITIES IN BID SCHEDULE. An estimate of quantities of work to be done and materials to be furnished under these specifications is given in the proposal. It is the result of careful calculations and is believed to be correct. It is given only as a basis for comparison of proposals and the award of the contract. The Owner does not expressly or by implication agree that the actual quantities involved will correspond exactly therewith; nor shall the bidder plead misunderstanding or deception because of such estimates of quantities, or of the character, location, or other conditions pertaining to the work. Payment to the Contractor will be made only for the actual quantities of work performed or materials furnished in accordance with the plans and specifications. It is understood that the quantities may be increased or decreased as provided in the subsection titled ALTERATION OF WORK AND QUANTITIES of Section 20 of the Illinois Standard Specifications for Construction of Airports without in any way invalidating the unit bid prices.

1-06 EXAMINATION OF PLANS, SPECIFICATIONS, AND SITE. The bidder is expected to carefully examine the site of the proposed work, the proposal, plans, specifications, and contract forms. He shall satisfy himself as to the character, quality, and quantities of work to be performed, materials to be furnished, and as to the requirements of the proposed contract. The submission of a proposal shall be prima facie evidence that the bidder has made such examination and is satisfied as to the conditions to be encountered in performing the work and as to the requirements of the proposed contract, plans, and specifications.

Boring logs, underground utilities and other records of subsurface investigations and tests are available for inspection of bidders. It is understood and agreed that such subsurface information, whether included in the plans, specifications, or otherwise made available to the bidder, was obtained and is intended for the Owner's design and estimating purposes only. Such information has been made available for the convenience of all bidders. It is further understood and agreed that each bidder is solely responsible for all assumptions, deductions, or conclusions which he may make or obtain from his examination of the boring logs and other records of subsurface investigations and tests that are furnished by the Owner.

1-07 PREPARATION OF THE PROPOSAL. The bidder shall submit his proposal on the form furnished by the Department. The proposal shall be executed property, and bids shall be made for all items indicated in the proposal form, except that when alternate bids are asked, a bid on more than one alternate for each item is not required, unless otherwise provided. The bidder shall indicate, in figures, a unit price for each of the separate items called for in the proposal; he shall show the products of the respective quantities and unit prices in the column provided for that purpose, and the gross sum shown in the place indicated in the proposal shall be the summation of said products. All writing shall be with ink or typewriter, except the signature of the bidder which shall be written with ink.

If the proposal is made by an individual, his name and business address shall be shown. If made by a firm or partnership, the name and business address of each member of the firm or partnership shall be shown. If made by a corporation, the proposal shall show the names, titles, and business address of the president, secretary, and treasurer, and the seal of the corporation shall be affixed and attested by the secretary.

The proposal shall be issued to a prequalified bidder in the same name and style as the financial statement used for prequalification and shall be submitted in like manner.

1-08 REJECTION OF PROPOSALS. The Department reserves the right to reject proposals for any of the conditions in Article 1-04 or for any of the following reasons:

- (a) More than one proposal for the same work from an individual, firm, partnership, or corporation under the same or different names.
- (b) Evidence of collusion among bidders.
- (c) Unbalanced proposals in which the prices for some items are obviously out of proportion to the prices for other items.
- (d) If the proposal does not contain a unit price for each pay item listed except in the case of authorized alternate pay items or lump sum pay items.
- (e) If the proposal is other than that furnished by the Department; or if the form is altered or any part thereof is detached.
- (f) If there are omissions, erasures, alterations, unauthorized additions, conditional or alternate bids, or irregularities of any kind which may tend to make the proposal incomplete, indefinite, or ambiguous as to its meaning.
- (g) If the bidder adds any provisions reserving the right to accept or reject an award, or to enter into a contract pursuant to an award.
- (h) If the proposal is not accompanied by the proper proposal guaranty.
- (i) If the proposal is prepared with other than ink or typewriter.
- (j) If the proposal is submitted in any other name other than that to whom it was issued by the Department.

1-09 PROPOSAL GUARANTY. Each Proposal shall be accompanied by either a bid bond on the Department of Transportation, Division of Aeronautics form contained in the proposal, executed by a corporate surety company satisfactory to the Department or by a bank cashier's check or a properly certified check for not less than 5 percent of the amount bid.

Bank cashier's checks, or properly certified checks accompanying proposals shall be made payable to the Treasurer, State of Illinois.

1-10 DELIVERY OF PROPOSALS. Each proposal should be submitted in a special envelope furnished by the Department. The blank spaces on the envelope shall be filled in correctly to clearly indicate its contents. When an envelope other than the special one furnished by the Department is used, it shall be of the same general size and shape and be similarly marked to clearly indicate its contents. When sent by mail, the sealed proposal shall be addressed to the Department at the address and in care of the official in whose office the bids are to be received. All proposals shall be filed prior to the time and place specified in the Notice to Bidders. Proposals received after the time for opening of bids will be returned to the bidder unopened.

1-11 WITHDRAWAL OF PROPOSALS. Permission will be given a bidder to withdraw a proposal if he makes his request in writing or by telegram before the time for opening proposals. If a proposal is withdrawn, the bidder will not be permitted to resubmit this proposal at the same letting. With the approval of the Engineer, a bidder may withdraw a proposal and substitute a new proposal prior to the time of opening bids.

1-12 PUBLIC OPENING OF PROPOSALS. Proposals will be opened and read publicly at the time and place specified in the Notice to Bidders. Bidders, their authorized agents, and other interested parties are invited to be present.

1-13 DISQUALIFICATION OF BIDDERS. A bidder shall be considered disqualified for any of the following reasons:

- (a) Submitting more than one proposal from the same partnership, firm, or corporation under the same or different name.
- (b) Evidence of collusion among bidders. Bidders participating in such collusion shall be disqualified as bidders for any future work of the Owner.
- (c) If the bidder is considered to be in "default" for any reason specified in the Subsection 1-04 titled ISSUANCE OF PROPOSAL FORMS of this section.

1-14 WORKER'S COMPENSATION INSURANCE. Prior to the approval of his contract by the Division, the Contractor shall furnish to the Division certificates of insurance covering Worker's Compensation, or satisfactory evidence that this liability is otherwise taken care of in accordance with Section 4.(a) of the "Worker's Compensation Act of the State of Illinois" as amended.

SECTION 2

AWARD AND EXECUTION OF CONTRACT

2-01 CONSIDERATION OF PROPOSALS. After the proposals are publicly opened and read, they will be compared on the basis of the summation of the products obtained by multiplying the estimated quantities shown in the proposal by the unit bid prices. In the event of a discrepancy between unit bid prices and extensions, the unit bid price shall govern.

Until the award of a contract is made, the Owner reserves the right to reject a bidder's proposal for any of the following reasons:

- (a) If the proposal is irregular as specified in the subsection titled REJECTION OF PROPOSALS of Section 1.
- (b) If the bidder is disqualified for any of the reasons specified in the subsection titled DISQUALIFICATION OF BIDDERS of Section 1.

In addition, until the award of a contract is made, the Owner reserves the right to reject any or all proposals; waive technicalities, if such waiver is in the best interest of the Owner and is in conformance with applicable State and Local laws or regulations pertaining to the letting of construction contracts; advertise for new proposals; or proceed with the work otherwise.

2-02 AWARD OF CONTRACT. The award of contract will be made within 60 calendar days after the opening of proposals to the lowest responsible and qualified bidder whose proposal complies with all the requirements prescribed. The successful bidder will be notified by letter, that his bid has been accepted, and that he has been awarded the contract.

If a contract is not awarded within 60 days after the opening of proposals, a bidder may file a written request with the Division for the withdrawal of his bid and the Division will permit such withdrawal.

For Federally assisted contracts, unless otherwise specified in this subsection, no award shall be made until the FAA has concurred in the Owner's recommendation to make such award and has approved the Owner's proposal contract to the extent that such concurrence and approval are required by Federal Regulations.

2-03 CANCELLATION OF AWARD. The Division reserves the right to cancel the award without liability to the bidder at any time before a contract has been fully executed by all parties and is approved by the Owner in accordance with the subsection titled APPROVAL OF CONTRACT of this section. The Division at the time of cancellation will return the proposal guaranty.

2-04 RETURN OF PROPOSAL GUARANTY. The proposal guaranties of all except the two lowest bidders will be returned promptly after the proposals have been checked, tabulated, and the relation of the proposals established. Proposal guaranties of the two lowest bidders will be returned as soon as the Construction Contract, Performance Bonds, and Payment Bonds of the successful bidder have been properly executed and approved.

If any other form of proposal guaranty is used, other than a bid bond, a bid bond may be substituted at the Contractor's option.

2-05 REQUIREMENT OF PERFORMANCE AND PAYMENT BONDS. The successful bidder for a contract, at the time of the execution of the contract, shall deposit with the Division separate performance and payment bonds each for the full amount of the contract. The form of the bonds shall be that furnished by the Division, and the sureties shall be acceptable to the Division.

2-06 EXECUTION OF CONTRACT. The successful bidder shall sign (execute) the Contract and shall return the signed Contract to the Owner (Sponsor) for signature (execution) and subsequently return all copies to the Division. The fully executed surety bonds specified in the subsection title REQUIREMENTS OF PERFORMANCE AND PAYMENT BONDS of this section will be forwarded to the Division within 15 days of the date mailed or otherwise delivered to the successful bidder. If the Contract and Bonds are mailed, special handling is recommended.

If the bidder to whom award is to be made is a corporation organized under the laws of a State other than Illinois, the bidder shall furnish the Division a copy of the corporation's certificate of authority to do business in the State of Illinois with the return of the executed contract and bond. Failure to furnish such evidence of a certificate of authority within the time required will be considered as just cause for the annulment of the award and the forfeiture of the proposal guaranty to the State, not as a penalty, but in payment of liquidated damages sustained as a result of such failure.

2-07 APPROVAL OF CONTRACT. Upon receipt of the contract and bonds that have been executed by the successful bidder, the Owner shall complete the execution of the contract in accordance with local laws or ordinances, and return the contract to the Division for approval and execution by the Division. Delivery of the fully executed contract to the Contractor shall constitute the Department's approval to be bound by the successful bidder's proposal and the terms of the contract.

2-08 FAILURE TO EXECUTE CONTRACT. If the contract is not executed by the Division within 15 days following receipt from the bidder of the properly executed contracts and bonds, the bidder shall have the right to withdraw his bid without penalty.

Failure of the successful bidder to execute the contract and file acceptable bonds within 15 days after the contract has been mailed to him shall be just cause for the cancellation of the award and the forfeiture of the proposal guaranty which shall become the property of the State, not as a penalty, but as liquidation of damages sustained.

ILLINOIS DEPARTMENT OF TRANSPORTATION

DIVISION OF AERONAUTICS

The requirements of the following provisions written for Federally-assisted construction contracts, including all goals and timetables and affirmative action steps, shall also apply to all State-funded construction contracts awarded by the Illinois Department of Transportation.

NOTICE OF REQUIREMENT FOR AFFIRMATIVE ACTION TO ENSURE EQUAL EMPLOYMENT OPPORTUNITY (EXECUTIVE ORDER 11246)

1. The Offeror's or Bidder's attention is called to the "Equal Opportunity Clause" and the "Standard Federal Equal Employment Opportunity Construction Contract Specifications" set forth herein.

2. The goals and timetables for minority and female participation, expressed in percentage terms for the Contractor's aggregate workforce in each trade on all construction work in the covered area, are as follows:

APPENDIX A

The following goal for female utilization in each construction craft and trade shall apply to all Contractors holding Federal and federally assisted construction contracts and subcontracts in excess of \$10,000. The goal is applicable to the Contractor's total on-site construction workforce, regardless of whether or not part of that workforce is performing work on a Federal, federally assisted or nonfederally related construction contract or subcontract.

AREA COVERED (STATEWIDE)

Goals for Women apply nationwide.

GOAL

	Goal (percent)
Female Utilization.....	... 6.9

APPENDIX B

Until further notice, the following goals for minority utilization in each construction craft and trade shall apply to all Contractors holding Federal and federally-assisted construction contracts and subcontracts in excess of \$10,000. to be performed in the respective geographical areas. The goals are applicable to the Contractor's total on-site construction workforce, regardless of whether or not part of that workforce is performing work on a Federal, federally-assisted or nonfederally related construction contract or subcontract.

<u>Economic Area</u>	<u>Goal (percent)</u>
056 Paducah, KY:	
Non-SMSA Counties -	5.2
IL - Hardin, Massac, Pope	
KY - Ballard, Caldwell, Calloway, Carlisle, Crittenden,	
Fulton, Graves, Hickman, Livingston, Lyon, McCracken, Marshall	

Revised 08-31-83

<u>Economic Area</u>	<u>Goal (percent)</u>
080 Evansville, IN:	
Non-SMSA Counties -	3.5
IL - Edwards, Gallatin, Hamilton, Lawrence, Saline, Wabash, White	
IN - Dubois, Knox, Perry, Pike, Spencer	
KY - Hancock, Hopkins, McLean, Mublenberg, Ohio, Union, Webster	
081 Terre Haute, IN:	
Non-SMSA Counties -	2.5
IL - Clark, Crawford	
IN - Parke	
083 Chicago, IL:	
SMSA Counties:	19.6
1600 Chicago, IL -	
IL - Cook, DuPage, Kane, Lake, McHenry, Will	
3740 Kankakee, IL -	9.1
IL - Kankakee	
Non-SMSA Counties	18.4
IL - Bureau, DeKalb, Grundy, Iroquois, Kendall, LaSalle, Livingston, Putnam	
IN - Jasper, Laporte, Newton, Pulaski, Starke	
084 Champaign - Urbana, IL:	
SMSA Counties:	
1400 Champaign - Urbana - Rantoul, IL -	7.8
IL - Champaign	
Non-SMSA Counties -	4.8
IL - Coles, Cumberland, Douglas, Edgar, Ford, Piatt, Vermilion	
085 Springfield - Decatur, IL:	
SMSA Counties:	
2040 Decatur, IL -	7.6
IL - Macon	
7880 Springfield, IL -	4.5
IL - Mendard, Sangamon	
Non-SMSA Counties	4.0
IL - Cass, Christian, Dewitt, Logan, Morgan, Moultrie, Scott, Shelby	
086 Quincy, IL:	
Non-SMSA Counties	3.1
IL - Adams, Brown, Pike	
MO - Lewis, Marion, Pike, Ralls	
087 Peoria, IL:	
SMSA Counties:	
1040 Bloomington - Normal, IL -	2.5
IL - McLean	

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APPENDIX B (CONTINUED)

<u>Economic Area</u>	<u>Goal (percent)</u>
6120 Peoria, IL - IL - Peoria, Tazewell, Woodford	4.4
Non-SMSA Counties - IL - Fulton, Knox, McDonough, Marshall, Mason, Schuyler, Stark, Warren	3.3
088 Rockford, IL: SMSA Counties: 6880 Rockford, IL - IL - Boone, Winnebago	6.3
Non-SMSA Counties - IL - Lee, Ogle, Stephenson	4.6
098 Dubuque, IA: Non-SMSA Counties - IL - JoDaviess IA - Atlamaakee, Clayton, Delaware, Jackson, Winnesheik WI - Crawford, Grant, Lafayette	0.5
099 Davenport, Rock Island, Moline, IA - IL: SMSA Counties: 1960 Davenport, Rock Island, Moline, IA - IL - IL - Henry, Rock Island IA - Scott	4.6
Non-SMSA Counties - IL - Carroll, Hancock, Henderson, Mercer, Whiteside IA - Clinton, DesMoines, Henry, Lee, Louisa, Muscatine MO - Clark	3.4
107 St. Louis, MO: SMSA Counties: 7040 St. Louis, MO - IL - IL - Clinton, Madison, Monroe, St. Clair MO - Franklin, Jefferson, St. Charles, St. Louis, St. Louis City	14.7
Non-SMSA Counties - IL - Alexander, Bond, Calhoun, Clay, Effingham, Fayette, Franklin, Greene, Jackson, Jasper, Jefferson, Jersey, Johnson, Macoupin, Marion, Montgomery, Perry, Pulaski, Randolph, Richland, Union, Washington, Wayne, Williamson MO - Bollinger, Butler, Cape Girardeau, Carter, Crawford, Dent, Gasconade, Iron, Lincoln, Madison, Maries, Mississippi, Montgomery, Perry, Phelps, Reynolds, Ripley, St. Francois, St. Genevieve, Scott, Stoddard, Warren, Washington, Wayne	11.4

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These goals are applicable to all the Contractor's construction work (whether or not it is Federal or federally assisted) performed in the covered area. If the Contractor performs construction work in a geographical area located outside of the covered area, it shall apply the goals established for such geographical area where the work is actually performed. With regard to this second area, the Contractor also is subject to the goals for both its federally involved and nonfederally involved construction.

The Contractor's compliance with Executive Order and the regulations in 41 CFR Part 60-4 shall be based on its implementation of the Equal Opportunity Clause, specific affirmative action obligations required by the provisions and specifications set forth in its federally assisted contracts, and its efforts to meet the goals established for the geographical area where the contract resulting from this solicitation is to be performed. The hours of minority and female employment and training must be substantially uniform throughout the length of the contract, and in each trade, and the Contractor shall make a good faith effort to employ minorities and women evenly on each of its projects. The transfer of minority or female employees or trainees from Contractor to Contractor or from project to project for the sole purpose of meeting the Contractor's goals shall be a violation of the contract, the Executive Order and the regulations in 41 CFR Part 60-4. Compliance with the goals will be measured against the total work hours performed.

3. The Illinois Division of Aeronautics will provide written notification to the Director of the Office of Federal Contract Compliance Programs within 10 working days of award of any construction contract and/or subcontract in excess of \$10,000 at any tier for construction work under the contract resulting from this solicitation. This notification will list the name, address and telephone number of the subcontractor; employer identification number; estimated dollar amount of the subcontract; estimated starting and completion dates of the subcontract; and the geographical area in which the contract is to be performed.

4. As used in this Notice, and in the contract resulting from this solicitation, the "covered area" is the entire State of Illinois for the goal set forth in APPENDIX A and the county or counties in which the work is located for the goals set forth in APPENDIX B.

STANDARD FEDERAL EQUAL EMPLOYMENT
OPPORTUNITY CONSTRUCTION CONTRACT
SPECIFICATIONS (EXECUTIVE ORDER 11246)

1. As used in these specifications:
 - a) "Covered area" means the geographical area described in the solicitation from which this contract resulted;
 - b) "Director" means Director, Office of Federal Contract Compliance Programs, United States Department of Labor, or any person to whom the Director delegates authority;
 - c) "Employer identification number" means the Federal Social Security number used on the Employer's Quarterly Federal Tax Return, U.S. Treasury Department Form 941;
 - d) "Minority" includes:
 - (i) Black (all persons having origins in any of the Black African racial groups not of Hispanic origin);
 - (ii) Hispanic (all persons of Mexican, Puerto Rican, Cuban, Central or South American or other Spanish Culture or origin, regardless of race);
 - (iii) Asian and Pacific Islander (all persons having origins in any of the original peoples of the Far East, Southeast Asia, the Indian Subcontinent, or the Pacific Islands); and
 - (iv) American Indian or Alaskan Native (all persons having origins in any of the original peoples of North America and maintaining identifiable tribal affiliations through membership and participation or community identification).
2. Whenever the Contractor, or any Subcontractor at any tier, subcontracts a portion of the work involving any construction trade, it shall physically include in each subcontract in excess of \$10,000. the provisions of these specifications and the Notice which contains the applicable goals for minority and female participation and which is set forth in the solicitations from which this contract resulted.

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3. If the Contractor is participating (pursuant to 41 CFR 60-4.5) in a Hometown Plan approved by the U.S. Department of Labor in the covered area either individually or through an association, its affirmative action obligations on all work in the plan area (including goals and timetables) shall be in accordance with that Plan for those trades which have unions participating in the Plan. Contractors must be able to demonstrate their participation in and compliance with the provisions of any such Hometown Plan. Each Contractor or Subcontractor participating in an approved Plan is individually required to comply with its obligations under the EEO clause, and to make a good faith effort to achieve each goal under the Plan in each trade in which it has employees. The overall good faith performance by other Contractors or Subcontractors toward a goal in an approved Plan does not excuse any covered Contractor's or Subcontractor's failure to take good faith efforts to achieve the Plan goals and timetables.
4. The Contractor shall implement the specific affirmative action standards provided in paragraphs 7a through p of these specifications. The goals set forth in the solicitation from which this contract resulted are expressed as percentages of the total hours of employment and training of minority and female utilization the Contractor should reasonably be able to achieve in each construction trade in which it has employees in the covered area. Covered Construction Contractors performing construction work in geographical areas where they do not have a Federal or federally assisted construction contract shall apply the minority and female goals established for the geographical area where the work is being performed. Goals are published periodically in the Federal Register in notice form, and such notices may be obtained from any Office of Federal Contract Compliance Programs office or from Federal procurement contracting officers. The Contractor is expected to make substantially uniform progress toward its goals in each craft during the period specified.
5. Neither the provisions of any collective bargaining agreement, nor the failure by a union with whom the Contractor has a collective bargaining agreement, to refer either minorities or women shall excuse the Contractor's obligations under these specifications, Executive Order 11246, or the regulations promulgated pursuant thereto.
6. In order for the nonworking training hours of apprentices and trainees to be counted in meeting the goals, such apprentices and trainees must be employed by the Contractor during the training period, and the Contractor must have made a commitment to employ the apprentices and trainees at the completion of their training, subject to the availability of employment opportunities. Trainees must be trained pursuant to training programs approved by the U.S. Department of Labor.
7. The Contractor shall take specific affirmative actions to ensure equal employment opportunity. The evaluation of the Contractor's compliance with these specifications shall be based upon its effort to achieve maximum results from its actions. The Contractor shall document these efforts fully, and shall implement affirmative action steps at least as extensive as the following:
 - a) Ensure and maintain a working environment free of harassment, intimidation, and coercion at all sites, and in all facilities at which the Contractor's employees are assigned to work. The Contractor, where possible, will assign two or more women to each construction project. The Contractor shall specifically ensure that all foremen, superintendents, and other on-site supervisory personnel are aware of and carry out the Contractor's obligation to maintain such a working environment, with specific attention to minority or female individuals working as such sites or in such facilities.
 - b) Establish and maintain a current list of minority and female recruitment sources, provide written notification to minority and female recruitment sources and to community organizations when the Contractor or its unions have employment opportunities available, and maintain a record of the organizations' responses.
 - c) Maintain a current file of the names, addresses and telephone numbers of each minority and female off-the-street applicant and minority or female referral from a union, a recruitment source or community organization and of what action was taken with respect to each such individual. If such individual was sent to the union hiring hall for referral and was not referred back to the Contractor by the union or, if referred, not employed by the Contractor, this shall be documented in the file with the reason therefor, along with whatever additional actions the Contractors may have taken.

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- d) Provide immediate written notification to the Director when the union or unions with which the Contractor has a collective bargaining agreement has not referred to the Contractor a minority person or woman sent by the Contractor, or when the Contractor has other information that the union referral process has impeded the Contractor's efforts to meet its obligations.
- e) Develop on-the-job training opportunities and/or participate in training programs for the area which expressly include minorities and women, including upgrading programs and apprenticeship and trainee programs relevant to the Contractor's employment needs, especially those programs funded or approved by the Department of Labor. The Contractor shall provide notice of these programs to the sources compiled under 7b above.
- f) Disseminate the Contractor's EEO policy by providing notice of the policy to unions and training programs and requesting their cooperation in assisting the Contractor in meeting its EEO obligations; by including it in any policy manual and collective bargaining agreements; by publicizing it in the company newspaper, annual report, etc.; by specific review of the policy with all management personnel and with all minority and female employees at least once a year; and by posting the company EEO policy on bulletin boards accessible to all employees at each location where construction work is performed.
- g) Review, at least annually, the company's EEO policy and affirmative action obligations under these specifications with all employees having any responsibility for hiring, assignment, layoff, termination or other employment decisions including specific review of these items with onsite supervisory personnel such as Superintendents, General Foreman, etc., prior to the initiation of construction work at any job site. A written record shall be made and maintained identifying the time and place of these meetings, persons attending, subject matter discussed, and disposition of the subject matter.
- h) Disseminate the Contractor's EEO policy externally by including it in any advertising in the news media, specifically including minority and female news media, and providing written notification to and discussing the Contractor's EEO policy with other Contractors and Subcontractors with whom the Contractor does or anticipates doing business.
- i) Direct its recruitment efforts, both oral and written, to minority, female and community organizations, to schools with minority and female students and to minority and female recruitment and training organizations serving the Contractor's recruitment area and employment needs. Not later than one month prior to the date for the acceptance of applications for apprenticeship or other training by any recruitment source, the Contractor shall send written notification to organizations such as the above, describing the openings, screening procedures, and tests to be used in the selection process.
- j) Encourage present minority and female employees to recruit other minority persons and women and, where reasonable, provide after school, summer and vacation employment to minority and female youth both on the site and in other areas of a Contractor's workforce.
- k) Validate all tests and other selection requirements where there is an obligation to do so under 41 CFR Part 60-3.
- l) Conduct, at least annually, an inventory and evaluation at least of all minority and female personnel for promotional opportunities and encourage these employees to seek or to prepare for, through appropriate training, etc., such opportunities.
- m) Ensure that seniority practices, job classifications, work assignments and other personnel practices, do not have a discriminatory effect by continually monitoring all personnel and employment related activities to ensure that the EEO policy and the Contractor's obligations under these specifications are being carried out.
- n) Ensure that all facilities and company activities are nonsegregated except that separate or single-user toilet and necessary changing facilities shall be provided to assure privacy between the sexes.
- o) Document and maintain a record of all solicitations of offers for subcontracts from minority and female construction Contractors and suppliers, including circulation of solicitations to minority and female Contractor associations and other business associations.

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- p) Conduct a review, at least annually, of all supervisors' adherence to and performance under the Contractor's EEO policies and affirmative action obligations.
8. Contractors are encouraged to participate in voluntary associations which assist in fulfilling one or more of their affirmative action obligations (7a through p). The efforts of a Contractor association, joint Contractor-union, Contractor-community, or other similar group of which the Contractor is a member and participant, may be asserted as fulfilling any one or more of its obligations under 7a through p of these Specifications provided that the Contractor actively participates in the group, makes every effort to assure that the group has a positive impact on the employment of minorities and women in the industry, ensures that the concrete benefits of the program are reflected in the Contractor's minority and female workforce participation makes a good faith effort to meet its individual goals and timetables, and can provide access to documentation which demonstrates the effectiveness of actions taken on behalf of the Contractor. The obligation to comply, however, is the Contractor's and failure of such a group to fulfill an obligation shall not be a defense for the Contractor's noncompliance.
9. A single goal for minorities and a separate single goal for women have been established. The Contractor, however, is required to provide equal employment opportunity and to take affirmative action for all minority groups, both male and female, and all women, both minority and non-minority. Consequently, the Contractor may be in violation of the Executive Order if a particular group is employed in a substantially disparate manner (for example, even though the Contractor has achieved its goals for women generally, the Contractor may be in violation of the Executive Order if a specified minority group of women is underutilized).
10. The Contractor shall not use the goals and timetables or affirmative action standards to discriminate against any person because of race, color, religion, sex, or national origin.
11. The Contractor shall not enter into any Subcontract with any person or firm debarred from Government contracts pursuant to Executive Order 11246.
12. The Contractor shall carry out such sanctions and penalties for violation of these specifications and of the Equal Opportunity Clause, including suspension, termination and cancellation of existing subcontracts as may be imposed or ordered pursuant to Executive Order 11246, as amended, and its implementing regulations, by the Office of Federal Contract Compliance Programs. Any Contractor who fails to carry out such sanctions and penalties shall be in violation of these specifications and Executive Order 11246, as amended.
13. The Contractor, in fulfilling its obligations under these specifications, shall implement specific affirmative action steps, at least as extensive as those standards prescribed in paragraph 7 of these specifications, so as to achieve maximum results from its efforts to ensure equal opportunity. If the Contractor fails to comply with the requirements of the Executive Order, the implementing regulations, or these specifications, the Director shall proceed in accordance with 41 CFR 60-4.8.
14. The Contractor shall designate a responsible official to monitor all employment related activity to ensure that the company EEO policy is being carried out, to submit reports relating to the provisions hereof as may be required by the Government and to keep records. Records shall at least include for each employee the name, address, telephone numbers, construction trade, union affiliation if any, employee identification number when assigned, social security number, race, sex, status (e.g., mechanic, apprentice, trainee, helper, or laborer), dates of changes in status, hours worked per week in the indicated trade, rate of pay, and locations at which the work was performed. Records shall be maintained in an easily understandable and retrievable form; however, to the degree that existing records satisfy his requirement, Contractors shall not be required to maintain separate records.
15. Nothing herein provided shall be construed as a limitation upon the application of other laws which establish different standards of compliance or upon the application of requirements for the hiring of local or other area residents (e.g., those under the Public Works Employment Act of 1977 and the Community Development Block Grant Program).

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ANNUAL EEO-1 REPORT TO JOINT REPORTING COMMITTEE AS REQUIRED AT

41 CFR 60-1.7(a)

Any Contractor having a Federal contract of \$50,000 or more and 50 or more employees is required to file annual compliance reports on Standard Form 100 (EEO-1) with the Joint Reporting Committee in accordance with the instructions provided with the form. The Contractor will provide a copy of such a report to the contracting agency within 30 days after the award of a contract.

The Contractor shall require its subcontractors to file an SF 100 within 30 days after award of the subcontract if (1) it is not exempt from the provisions of these regulations in accordance with 60-1.5, (2) has 50 or more employees, (3) first tier subcontractor, and (4) has a subcontract amounting to \$50,000 or more.

Subcontractors below the first tier which perform construction work at the site of construction shall be required to file such a report if (1) it is not exempt from the provisions of these regulations in accordance with 60-1.5, (2) has 50 or more employees and has a subcontract amounting to \$50,000 or more.

The SF 100 is available at the following address:

Joint Reports Committee
EEOC - Survey Division
1801 "L" Street N.W.
Washington, D.C. 20750

Phone (202) 663-4968

DISADVANTAGED BUSINESS POLICY

I. NOTICE

This proposal contains the special provision entitled "Required Disadvantaged Business Participation." Inclusion of this Special Provision in this contract satisfies the obligations of the Department of Transportation under federal law as implemented by 49 CFR 23 and under the Illinois "Minority and Female Business Enterprise Act."

II. POLICY

It is public policy that the businesses defined in 49 CFR Part 23 shall have the maximum opportunity to participate in the performance of contracts financed in whole or in part with State or Federal funds. Consequently, the requirements of 49 CFR Part 23 apply to this contract.

III. OBLIGATION

The Contractor agrees to ensure that the businesses defined in 49 CFR Part 23 have the maximum opportunity to participate in the performance of this contract. In this regard, the Contractor shall take all necessary and reasonable steps, in accordance with 49 CFR Part 23, to ensure that the said businesses have the maximum opportunity to compete for and perform portions of this contract. The Contractor shall not discriminate on the basis of race, color, national origin, or sex in the selection and retention of subcontractors, including procurement of materials and leases of equipment.

The Contractor shall include the above Policy and Obligation statements of this Special Provision in every subcontract, including procurement of materials and leases of equipment.

IV. DBE/WBE CONTRACTOR FINANCE PROGRAM

On contracts where a loan has been obtained through the DBE/WBE Contractor Finance Program, the Contractor shall cooperate with the Department by making all payments due to the DBE/WBE Contractor by means of a two-payee check payable to the Lender (Bank) and the Borrower (DBE/WBE Contractor).

V. BREACH OF CONTRACT

Failure to carry out the requirements set forth above and in the Special Provision shall constitute a breach of contract and may result in termination of the contract or liquidated damages as provided in the special provision.

(Rev. 9/21/92)

State of Illinois
Department of Transportation

SPECIAL PROVISION
FOR
DISADVANTAGED BUSINESS ENTERPRISE PARTICIPATION

- I. FEDERAL OBLIGATION: The Department of Transportation, as a recipient of federal financial assistance, is required to take all necessary and reasonable steps to ensure nondiscrimination in the award and administration of contracts. Consequently, the federal regulatory provisions of 49 CFR part 26 apply to this contract concerning the utilization of disadvantaged business enterprises. This Special Provision will also be used by the Department to satisfy the requirements of the Business Enterprise for Minorities, Females, and Persons with Disabilities Act, 30 ILCS 575. For the purposes of this Special Provision, a disadvantaged business enterprise (DBE) means a business certified by the Department in accordance with the requirements of 49 CFR part 26 and listed in the DBE Directory or most recent addendum.
- II. CONTRACTOR ASSURANCE: The Contractor makes the following assurance and agrees to include the assurance in each subcontract that the Contractor signs with a subcontractor:
- The contractor, subrecipient or subcontractor shall not discriminate on the basis of race, color, national origin, or sex in the performance of this contract. The contractor shall carry out applicable requirements of 49 CFR part 26 in the award and administration of federally-assisted contracts. Failure by the contractor to carry out these requirements is a material breach of this contract, which may result in the termination of this contract or such other remedy as the recipient deems appropriate.
- III. OVERALL GOAL SET FOR THE DEPARTMENT: As a requirement of compliance with 49 CFR part 26, the Department has set an overall goal for DBE participation in its federally assisted contracts. That goal is 22.77% of all federal-aid funds the Department will expend in its federally assisted contracts for the subject reporting fiscal year. The Department is required to make a good faith effort to achieve this goal. The dollar amount paid to all approved DBE firms performing work called for in this contract is eligible to be credited toward fulfillment of the Department's overall goal.
- IV. CONTRACT GOAL TO BE ACHIEVED BY THE CONTRACTOR: This contract includes a specific DBE utilization goal established by the Department. The goal has been included because the Department has determined that the work of this contract has subcontracting opportunities that may be suitable for performance by DBE companies. This determination is based on an assessment of the type of work, the location of the work, and the availability of DBE companies to do a part of the work. The assessment indicates that, in the absence of unlawful discrimination, and in an arena of fair and open competition, DBE companies can be expected to perform 0.0% of the work. This percentage is set as the DBE participation goal for this contract. Consequently, in addition to the other award criteria established for this contract, the Department will award this contract to a bidder who makes a good faith effort to meet this goal of DBE participation in the performance of the work. A bidder makes a good faith effort for award consideration if either of the following is done in accordance with the procedures set forth in this Special Provision:
- A. The bidder documents that firmly committed DBE participation has been obtained to meet the goal; or
- B. The bidder documents that a good faith effort has been made to meet the goal, even though the effort did not succeed in obtaining enough DBE participation to meet the goal.

- V. DBE LOCATOR REFERENCES: Bidders may consult the DBE Directory as a reference source for DBE companies certified by the Department. In addition, the Department maintains a letting and item specific DBE locator information system whereby DBE companies can register their interest in providing quotes on particular bid items advertised for letting. Information concerning DBE companies willing to quote work for particular contracts may be obtained by contacting the Department's Bureau of Small Business Enterprises at telephone number (217)785-4611, or by visiting the Department's web site at www.dot.state.il.us.
- VI. BIDDING PROCEDURES: Compliance with the bidding procedures of this Special Provision is required prior to the award of the contract and the failure of the as-read low bidder to comply will render the bid nonresponsive.
- A. In order to assure the timely award of the contract, the as-read low bidder must submit a Disadvantaged Business Utilization Plan on Department form SBE 2026 within seven (7) working days after the date of letting. To meet the seven (7) day requirement, the bidder may send the Plan by certified mail or delivery service within the seven (7) working day period. If a question arises concerning the mailing date of a Plan, the mailing date will be established by the U.S. Postal Service postmark on the original certified mail receipt from the U.S. Postal Service or the receipt issued by a delivery service. It is the responsibility of the as-read low bidder to ensure that the postmark or receipt date is affixed within the seven (7) working days if the bidder intends to rely upon mailing or delivery to satisfy the submission day requirement. The Plan is to be submitted to the Department of Transportation, Bureau of Small Business Enterprises, Contract Compliance Section, 2300 South Dirksen Parkway, Room 319, Springfield, Illinois 62764 (Telefax: (217) 785-1524). It is the responsibility of the bidder to obtain confirmation of telefax delivery. The Department will not accept a Utilization Plan if it does not meet the seven (7) day submittal requirement, and the bid will be declared nonresponsive. In the event the bid is declared nonresponsive due to a failure to submit a Plan or failure to comply with the bidding procedures set forth herein, the Department may elect to cause the forfeiture of the penal sum of the bidder's proposal guaranty, and may deny authorization to bid the project if re-advertised for bids. The Department reserves the right to invite any other bidder to submit a Utilization Plan at any time for award consideration or to extend the time for award.
- B. The Utilization Plan shall indicate that the bidder either has obtained sufficient DBE participation commitments to meet the contract goal or has not obtained enough DBE participation commitments in spite of a good faith effort to meet the goal. The Utilization Plan shall further provide the name, telephone number and telefax number of a responsible official of the bidder designated for purposes of notification of plan approval or disapproval under the procedures of this Special Provision.
- C. The Utilization Plan shall include a DBE Participation Commitment Statement, Department form SBE 2025, for each DBE proposed for the performance of work to achieve the contract goal. The signatures on these forms must be original signatures. All elements of information indicated on the said form shall be provided, including but not limited to the following:
1. The name and address of each DBE to be used;
 2. A description, including pay item numbers, of the commercially useful work to be done by each DBE;
 3. The price to be paid to each DBE for the identified work specifically stating the quantity, unit price and total subcontract price for the work to be completed by the DBE. If partial pay items are to be performed by the DBE, indicate the portion of each item, a unit price where appropriate and the subcontract price amount;
 4. A commitment statement signed by the bidder and each DBE evidencing availability and intent to perform commercially useful work on the project; and
 5. If the bidder is a joint venture comprised of DBE firms and non-DBE firms, the plan must also include a clear identification of the portion of the work to be performed by the DBE partner(s).

D. The contract will not be awarded until the Utilization Plan submitted by the bidder is approved. The Utilization Plan will be approved by the Department if the Plan commits sufficient commercially useful DBE work performance to meet the contract goal. The Utilization Plan will not be approved by the Department if the Plan does not commit sufficient DBE performance to meet the contract goal unless the bidder documents that it made a good faith effort to meet the goal. The good faith procedures of Section VIII of this special provision apply. If the Utilization Plan is not approved because it is deficient in a technical matter, unless waived by the Department, the bidder will be notified and will be allowed no less than a five (5) working day period in order to cure the deficiency.

VII. CALCULATING DBE PARTICIPATION: The Utilization Plan values represent work anticipated to be performed and paid for upon satisfactory completion. The Department is only able to count toward the achievement of the overall goal and the contract goal the value of payments made for the work actually performed by DBE companies. In addition, a DBE must perform a commercially useful function on the contract to be counted. A commercially useful function is generally performed when the DBE is responsible for the work and is carrying out its responsibilities by actually performing, managing, and supervising the work involved. The Department and Contractor are governed by the provisions of 49 CFR part 26.55(c) on questions of commercially useful functions as it affects the work. Specific counting guidelines are provided in 49 CFR part 26.55, the provisions of which govern over the summary contained herein.

A. DBE as the Contractor: 100% goal credit for that portion of the work performed by the DBE's own forces, including the cost of materials and supplies. Work that a DBE subcontracts to a non-DBE firm does not count toward the DBE goals.

B. DBE as a joint venture Contractor: 100% goal credit for that portion of the total dollar value of the contract equal to the distinct, clearly defined portion of the work performed by the DBE's own forces.

C. DBE as a subcontractor: 100% goal credit for the work of the subcontract performed by the DBE's own forces, including the cost of materials and supplies. Work that a DBE subcontractor in turn subcontracts to a non-DBE firm does not count toward the DBE goal.

D. DBE as a trucker: 100% goal credit for trucking participation provided the DBE is responsible for the management and supervision of the entire trucking operation for which it is responsible. At least one truck owned, operated, licensed and insured by the DBE must be used on the contract. Credit will be given for the full value of all such DBE trucks operated using DBE employed drivers. Goal credit will be limited to the value of the reasonable fee or commission received by the DBE if trucks are leased from a non-DBE company.

E. DBE as a material supplier:

1. 60% goal credit for the cost of the materials or supplies purchased from a DBE regular dealer.
2. 100% goal credit for the cost of materials or supplies obtained from a DBE manufacturer.
3. 100% credit for the value of reasonable fees and commissions for the procurement of materials and supplies if not a regular dealer or manufacturer.

VIII. GOOD FAITH EFFORT PROCEDURES: If the bidder cannot obtain sufficient DBE commitments to meet the contract goal, the bidder must document in the Utilization Plan the good faith efforts made in the attempt to meet the goal. This means that the bidder must show that all necessary and reasonable steps were taken to achieve the contract goal. Necessary and reasonable steps are those which could reasonably be expected to obtain sufficient DBE participation. The Department will consider the quality, quantity and intensity of the kinds of efforts that the bidder has made. Mere *pro forma* efforts are not good faith efforts; rather, the bidder is expected to have taken those efforts that would be reasonably expected of a bidder actively and aggressively trying to obtain DBE participation sufficient to meet the contract goal.

- A. The following is a list of types of action that the Department will consider as part of the evaluation of the bidder's good faith efforts to obtain participation. These listed factors are not intended to be a mandatory checklist and are not intended to be exhaustive. Other factors or efforts brought to the attention of the Department may be relevant in appropriate cases, and will be considered by the Department.
1. Soliciting through all reasonable and available means (e.g. attendance at pre-bid meetings, advertising and/or written notices) the interest of all certified DBE companies that have the capability to perform the work of the contract. The bidder must solicit this interest within sufficient time to allow the DBE companies to respond to the solicitation. The bidder must determine with certainty if the DBE companies are interested by taking appropriate steps to follow up initial solicitations.
 2. Selecting portions of the work to be performed by DBE companies in order to increase the likelihood that the DBE goals will be achieved. This includes, where appropriate, breaking out contract work items into economically feasible units to facilitate DBE participation, even when the prime contractor might otherwise prefer to perform these work items with its own forces.
 3. Providing interested DBE companies with adequate information about the plans, specifications, and requirements of the contract in a timely manner to assist them in responding to a solicitation.
 4. (a) Negotiating in good faith with interested DBE companies. It is the bidder's responsibility to make a portion of the work available to DBE subcontractors and suppliers and to select those portions of the work or material needs consistent with the available DBE subcontractors and suppliers, so as to facilitate DBE participation. Evidence of such negotiation includes the names, addresses, and telephone numbers of DBE companies that were considered; a description of the information provided regarding the plans and specifications for the work selected for subcontracting; and evidence as to why additional agreements could not be reached for DBE companies to perform the work.

(b) A bidder using good business judgment would consider a number of factors in negotiating with subcontractors, including DBE subcontractors, and would take a firm's price and capabilities as well as contract goals into consideration. However, the fact that there may be some additional costs involved in finding and using DBE companies is not in itself sufficient reason for a bidder's failure to meet the contract DBE goal, as long as such costs are reasonable. Also, the ability or desire of a prime contractor to perform the work of a contract with its own organization does not relieve the bidder of the responsibility to make good faith efforts. Prime contractors are not, however, required to accept higher quotes from DBE companies if the price difference is excessive or unreasonable.
 5. Not rejecting DBE companies as being unqualified without sound reasons based on a thorough investigation of their capabilities. The contractor's standing within its industry, membership in specific groups, organizations, or associations and political or social affiliations (for example union vs. non-union employee status) are not legitimate causes for the rejection or non-solicitation of bids in the contractor's efforts to meet the project goal.
 6. Making efforts to assist interested DBE companies in obtaining bonding, lines of credit, or insurance as required by the recipient or contractor.
 7. Making efforts to assist interested DBE companies in obtaining necessary equipment, supplies, materials, or related assistance or services.
 8. Effectively using the services of available minority/women community organizations; minority/women contractors' groups; local, state, and Federal minority/women business assistance offices; and other organizations as allowed on a case-by-case basis to provide assistance in the recruitment and placement of DBE companies.
- B. If the Department determines that the Contractor has made a good faith effort to secure the work commitment of DBE companies to meet the contract goal, the Department will award the contract provided that it is otherwise eligible for award. If the Department determines that a good faith effort has not been made, the Department will notify the bidder of that preliminary determination by contacting the responsible company official designated in the Utilization Plan. The preliminary determination shall include a statement of reasons why good faith efforts have not been found, and may include additional good faith efforts that the bidder could take. The notification will

designate a five (5) working day period during which the bidder shall take additional efforts. The bidder is not limited by a statement of additional efforts, but may take other action beyond any stated additional efforts in order to obtain additional DBE commitments. The bidder shall submit an amended Utilization Plan if additional DBE commitments to meet the contract goal are secured. If additional DBE commitments sufficient to meet the contract goal are not secured, the bidder shall report the final good faith efforts made in the time allotted. All additional efforts taken by the bidder will be considered as part of the bidder's good faith efforts. If the bidder is not able to meet the goal after taking additional efforts, the Department will make a pre-final determination of the good faith efforts of the bidder and will notify the designated responsible company official of the reasons for an adverse determination.

- C. The bidder may request administrative reconsideration of a pre-final determination adverse to the bidder within the five (5) working days after the notification date of the determination by delivering the request to the Department of Transportation, Division of Aeronautics, 1 Langhorne Bond Drive, Capital Airport, Springfield, IL 62707-8415 (Telefax: 217-785-4533). Deposit of the request in the United States mail on or before the fifth business day shall not be deemed delivery. The pre-final determination shall become final if a request is not made and delivered. A request may provide additional written documentation and/or argument concerning the issue of whether an adequate good faith effort was made to meet the contract goal. In addition, the request shall be considered a consent by the bidder to extend the time for award. The request will be forwarded to the Department's Reconsideration Officer. The Reconsideration Officer will extend an opportunity to the bidder to meet in person in order to consider all issues of whether the bidder made a good faith effort to meet the goal. After the review by the Reconsideration Officer, the bidder will be sent a written decision within ten (10) working days after receipt of the request for reconsideration, explaining the basis for finding that the bidder did or did not meet the goal or make adequate good faith efforts to do so. A final decision by the Reconsideration Officer that a good faith effort was made shall approve the Utilization Plan submitted by the bidder and shall clear the contract for award. A final decision that a good faith effort was not made shall render the bid nonresponsive.

IX. CONTRACT COMPLIANCE: Compliance with this Special Provision is an essential part of the contract. The Department is prohibited by federal regulations from crediting the participation of a DBE included in the Utilization Plan toward either the contract goal or the Department's overall goal until the amount to be applied toward the goals has been paid to the DBE. The following administrative procedures and remedies govern the compliance by the Contractor with the contractual obligations established by the Utilization Plan. After approval of the Plan and award of the contract, the Utilization Plan and individual DBE Participation Statements become part of the contract. If the contractor did not succeed in obtaining enough DBE participation to achieve the advertised contract goal, and the Utilization Plan was approved and contract awarded based upon a determination of good faith, the total dollar value of DBE work calculated in the approved Utilization Plan as a percentage of the awarded contract value shall become the amended contract goal.

- A. No amendment to the Utilization Plan may be made without prior written approval from the Division of Aeronautics. All requests for amendment to the Utilization Plan shall be submitted to the Department of Transportation, Division of Aeronautics, 1 Langhorne Bond Drive, Capital Airport, Springfield, IL 62707-8415. Telephone number (217) 785-8514. Telefax number (217) 785-4533.
- B. All work indicated for performance by an approved DBE shall be performed, managed and supervised by the DBE executing the Participation Statement. The Contractor shall not terminate for convenience a DBE listed in the Utilization Plan and then perform the work of the terminated DBE with its own forces, those of an affiliate or those of another subcontractor, whether DBE or not, without first obtaining the written consent of the Bureau of Small Business Enterprises to amend the Utilization Plan. If a DBE listed in the Utilization Plan is terminated for reasons other than convenience, or fails to complete its work on the contract for any reason, the Contractor shall make good faith efforts to find another DBE to substitute for the terminated DBE. The good faith efforts shall be directed at finding another DBE to perform at least the same amount of work under the contract as the DBE that was terminated, but only to the extent needed to meet the contract goal or the amended contract goal. The Contractor shall notify the Division of Aeronautics of any termination for reasons other than convenience, and shall obtain approval for inclusion of the substitute DBE in the Utilization Plan. If good faith efforts following a termination of a DBE for cause are not successful, the Contractor shall contact the Division and provide a full accounting of the efforts undertaken to obtain substitute DBE participation. The Division will evaluate the good faith efforts in light of all circumstances surrounding the performance status of the contract, and determine whether the contract goal should be amended.

- C. The Contractor shall maintain a record of payments for work performed to the DBE participants. The records shall be made available to the Department for inspection upon request. After the performance of the final item of work or delivery of material by a DBE and final payment therefor to the DBE by the Contractor, but not later than thirty (30) calendar days after payment has been made by the Department to the Contractor for such work or material without regard to any retainage withheld by the Department, the Contractor shall submit a DBE Payment Report on Department form SBE 2115 to the Division's Chief Engineer. If full and final payment has not been made to the DBE, the Report shall indicate whether a disagreement as to the payment required exists between the Contractor and the DBE or if the Contractor believes that the work has not been satisfactorily completed. If the Contractor does not have the full amount of work indicated in the Utilization Plan performed by the DBE companies indicated in the Plan, the Department will deduct from contract payments to the Contractor the amount of the goal not achieved as liquidated and ascertained damages.

- D. The Department reserves the right to withhold payment to the Contractor to enforce the provisions of this Special Provision. Final payment shall not be made on the contract until such time as the Contractor submits sufficient documentation demonstrating achievement of the goal in accordance with this Special Provision or after liquidated damages have been determined and collected.

Certification of Nonsegregated Facilities - as Required by 41 CFR 60-1.8

(Applicable to (1) contracts, (2) subcontracts, and (3) agreements with applicants who are themselves performing federally assisted construction contracts, exceeding \$10,000.00 which are not exempt from the provisions of the Equal Opportunity clause).

By the submission of this bid, the bidder, offeror, applicant, or subcontractor certifies that he does not maintain or provide for his employees any segregated facilities at any of his establishments and that that he does not permit his employees to perform their services at any location, under his control, where segregated facilities are maintained. He certifies further that he will not maintain or provide for his employees any segregated facilities at any of his establishments and that he will not permit his employees to perform their services at any location, under his control, where segregated facilities are maintained. The bidder, offeror, applicant, or subcontractor agrees that a breach of his certification is a violation of the Equal opportunity clause in this contract. As used in this certification, the term "segregated facilities" means any waiting rooms, work areas, rest rooms and wash rooms, restaurants and other eating areas, time clocks, locker rooms and other storage or dressing areas, parking lots, drinking fountains, recreation or entertainment areas, transportation, and housing facilities provided for employees which are segregated by explicit directive or are in fact segregated on the basis of race, color, religion, or national origin, because of habit, local custom, or otherwise. He further agrees that (except where he has obtained identical certifications from proposed subcontractors for specific time periods) he will obtain identical certifications from proposed subcontractors prior to the award of subcontracts exceeding \$10,000.00 which are not exempt from the provisions of the Equal Opportunity clause; that he will retain such certifications in his files and that he will forward the following notice to such proposed subcontractors (except where the proposed subcontractors have submitted identical certifications for specific time periods):

**NOTICE TO PROSPECTIVE SUBCONTRACTORS OF REQUIREMENT FOR
CERTIFICATIONS OF NONSEGREGATED FACILITIES**

A certification of Nonsegregated Facilities must be submitted prior to the award of a subcontract exceeding \$10,000.00 which is not exempt from the provisions of the Equal Opportunity clause. The certification may be submitted either for each subcontract or for all subcontracts during a period (i.e., quarterly, semiannually or annually).

NOTE: The penalty for making false statements in offers is prescribed in 18 U.S.C 1001.

CERTIFICATION REGARDING DEBARMENT, SUSPENSION, AND OTHER RESPONSIBILITY MATTERS
Instructions for Certification

1. By signing and submitting this proposal, the prospective primary participant is providing the certification set out below.
2. The inability of a person to provide the certification required below will not necessarily result in denial of participation in this covered transaction. The prospective participant shall submit an explanation of why it cannot provide the certification set out below. The certification or explanation will be considered in connection with the department or agency's determination whether to enter into this transaction. However, failure of the prospective primary participant to furnish a certification or an explanation shall disqualify such person from participation in this transaction.
3. The certification in this clause is a material representation of fact upon which reliance was placed when the department or agency determined to enter into this transaction. If it is later determined that the prospective primary participant knowingly rendered an erroneous certification in addition to other remedies available to the Federal Government, the department or agency may terminate this transaction for cause of default.
4. The prospective primary participant shall provide immediate written notice to the department or agency to whom this proposal is submitted if at any time the prospective primary participant learns that its certification was erroneous when submitted or has become erroneous by reason of changed circumstances.
5. The terms "covered transaction" "debarred" "suspended" "ineligible" "lower tier covered transaction" "participant" "person" "primary covered transaction" "principal" "proposal" and "voluntarily excluded" as used in this clause have the meaning set out in the Definitions and Coverage sections of the rules implementing Executive Order 12540. You may contact the department or agency to which this proposal is being submitted for assistance in obtaining a copy of those regulations.
6. The prospective primary participant agrees by submitting this proposal that should the proposed covered transaction be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction unless authorized by the department or agency entering into this transaction.
7. The prospective primary participant further agrees by submitting this proposal that it will include the clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion - Lower Tier Transaction", provided by the department or agency entering into this covered transaction without modification in all lower covered transactions and in all solicitations for lower covered transactions.
8. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that it is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction unless it knows that the certification is erroneous. A participant may decide the method and frequency by which it determines the eligibility of its principals. Each participant may, but is not required to check the Nonprocurement List (Tel. #).
9. Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of a participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.
10. Except for transactions authorized under paragraph 8 of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the department or agency may terminate this transaction for cause or default.

Certification Regarding Debarment, Suspension, and
Other Responsibility Matters - Primary Covered Transactions

1. The prospective primary participant certifies to the best of its knowledge and belief that it and its principals:
 - a. Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from covered transactions by an Federal department or agency;
 - b. Have not within a three-year period preceding this proposal been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain or performing a public (Federal, State or Local) transaction or contract under a public transaction: violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction or destruction of records, making false statements, or receiving stolen property;
 - c. Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State or local) with commission of any of the offenses enumerated in paragraph (1)(b) of this certification; and
 - d. Have not within a three-period preceding this application/proposal had one or more public transactions (Federal, State or local) terminated for cause or default.
2. Where the prospective primary participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

CERTIFICATION REGARDING LOBBYING (Applicable to contracts in excess of \$100,000):

Certification for Contracts, Grants, Loans and Cooperative Agreements.

The undersigned bidder certifies, to the best of his or her knowledge and belief, that:

- (1) No Federal appropriated funds have paid or will be paid, by or behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an Officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.
- (2) If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying", in accordance with its instructions.
- (3) The undersigned shall require that the language of this certification be included in the award documents for all subawards at all tiers (including subcontracts, subgrants, and contracts under grants, loans, and cooperative agreements) and that all subrecipients shall certify and disclose accordingly.

This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by Section 1352, title 31, U.S. Code. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

WORKERS' COMPENSATION INSURANCE

Prior to the execution of his construction contract by the Illinois Department of Transportation, Division of Aeronautics, hereinafter referred to as "Division", the Contractor shall furnish to the Division certificates of insurance covering Workers' Compensation, or satisfactory evidence that this liability is otherwise taken care of in accordance with Section 4.(a) of the "Workers' Compensation Act of the State of Illinois" as amended.

Such insurance, or other means of protection as herein provided, shall be kept in force until all work to be performed under the terms of the contract has been completed and accepted in accordance with the specifications, and it is hereby understood and agreed that the maintenance of such insurance or other protection, until acceptance of the work by the Division is a part of the contract. Failure to maintain such insurance, cancellation by the Industrial Commission of its approval of such other means of protection as might have been elected, or any other act which results in lack of protection under the said "Workers' Compensation Act" may be considered as a breach of the contract.

SPECIAL PROVISION FOR DOMESTIC SOURCE FOR STEEL

Control of Materials: All steel products, as defined by the Illinois Steel Products Procurement Act, incorporated into this project shall be manufactured or produced in the United States and, in addition, shall be domestically fabricated. The Contractor shall obtain from the steel producer and/or fabricator, in addition to the mill analysis, a certification that all steel products meet these domestic source requirements.

CLAUSE TO BE INCLUDED IN ALL SOLICITATIONS,
CONTRACTS, AND SUBCONTRACTS RESULTING FROM PROJECTS FUNDED UNDER THE AIP

The Contractor or subcontractor, by submission of an offer and/or execution of a contract, certifies that it:

- a. is not owned or controlled by one or more citizens or nationals of a foreign country included in the list of countries that discriminate against U.S. firms published by the Office of the United States Trade Representative (USTR);
- b. has not knowingly entered into any contract or subcontract for this project with a Contractor that is a citizen or national of a foreign country on said list, or is owned or controlled directly or indirectly by one or more citizens or nationals of a foreign country on said list.
- c. has not procured any product nor subcontracted for the supply of any product for use on the project that is produced in a foreign country on said list.

Unless the restrictions of this clause are waived by the Secretary of Transportation in accordance with 49 CFR 30.17, no contract shall be awarded to a Contractor or subcontractor who is unable to certify to the above. If the Contractor knowingly procures or subcontracts for the supply of any product or service of a foreign country on the said list for use on the project, the Federal Aviation Administration may direct, through the sponsor, cancellation of the contract at no cost to the Government.

Further, the Contractor agrees that, if awarded a contract resulting from this solicitation, it will incorporate this provision for certification without modification in each contract and in all lower tier subcontracts. The Contractor may rely upon the certification of a prospective subcontractor unless it has knowledge that the certification is erroneous.

The Contractor shall provide immediate written notice to the sponsor if the Contractor learns that its certification or that of a subcontractor was erroneous when submitted or has become erroneous by reason of changed circumstances. The subcontractor agrees to provide immediate written notice to the Contractor, if at any time it learns that its certification was erroneous by reason of changed circumstances.

This certification is a material representation of fact upon which reliance was placed when making the award. If it is later determined that the Contractor or subcontractor knowingly rendered an erroneous certification, the Federal Aviation Administration may direct, through this sponsor, cancellation of the contract or subcontract for default at no cost to the Government.

Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render, in good faith, the certification required by this provision. The knowledge and information of a Contractor is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.

This certification concerns a matter within the jurisdiction of an agency of the United States of America and the making of false, fictitious, or fraudulent certification may render the maker subject to prosecution under Title 18, United States Code, Section 1001.

SECTION III
SPECIAL PROVISIONS
FOR
GALESBURG MUNICIPAL AIRPORT
GALESBURG, ILLINOIS

INSTALL NEW EDGE LIGHTING SYSTEMS ON RUNWAY 3-21 AND
RUNWAY 10-28 AND THEIR ASSOCIATED TAXIWAYS
CONSTRUCT NEW ELECTRICAL VAULT FOR AIRFIELD LIGHTING

ILLINOIS PROJECT NO. GBG-3433
AIP PROJECT NO. 3-17-0047-B8

MARCH 24, 2006

GENERAL

These Special Provisions together with applicable Specifications, Contract Requirements for State of Illinois Projects, Payroll Requirements and Minimum Wage Rates which are hereto attached or which by reference are herein incorporated, cover the requirements of the State of Illinois, Department of Transportation, Division of Aeronautics, the Federal Aviation Administration and the City of Galesburg, Illinois for further improvements and/or development of the Galesburg Municipal Airport.

PROJECT DESCRIPTION

This project consists of work to install new edge lighting systems on Runway 3-21 and Runway 10-28 and their associated taxiways; and to construct a new electrical vault building; all work being accomplished on the airport property of Galesburg Municipal Airport. The work to be done consists of installing a new High Intensity Edge Lighting System on Runway 3-21, including a new REIL system on Runway End 21; installing new Medium Intensity Edge Lighting Systems on Runway 10-28 and on the parallel and connecting taxiways associated with Runways 3-21 and 10-28, including new taxi guidance and holding signs; and constructing a new electrical vault building to house the power feed and control equipment for the airfield lighting systems; and other miscellaneous items necessary to complete the work for this project.

GOVERNING SPECIFICATIONS

The Illinois Standard Specifications for Construction of Airports, State of Illinois, Department of Transportation, Division of Aeronautics, dated January, 1985, and the Supplemental Specifications and Recurring Special Provisions adopted July 1, 2004 by the Illinois Department of Transportation, Division of Aeronautics, which are incorporated herein and made a part hereof by reference, shall govern the project except as otherwise noted in these Special Provisions.

The following specification items shall provide the detailed requirements for this project except as otherwise noted in these Special Provisions:

<u>ITEM</u>	<u>DESCRIPTION</u>
DIVISION I	GENERAL PROVISIONS
DIVISION II	PAVING CONSTRUCTION DETAILS
208	Aggregate Base Course
501	Portland Cement Concrete Pavement
610	Structural Portland Cement Concrete
DIVISION V	TURFING
901	Seeding
DIVISION VI	LIGHTING INSTALLATION
108	Installation of Underground Cable for Airports
109	Installation of Airport Transformer Vault & Vault Equipment
110	Installation of Airport Underground Electrical Duct
125	Installation of Airport Lighting Systems

The following Supplemental Specifications shall be applicable to this project except as otherwise noted in these Special Provisions:

<u>ITEM</u>	<u>DESCRIPTION</u>
DIVISION 1	GENERAL PROVISIONS
10	Definition of Terms
20	Scope of Work
30	Control of Work
40	Control of Materials
50	Legal Relations and Responsibility to Public
60	Prosecution and Progress
70	Measurement and Payment
DIVISION II	PAVING CONSTRUCTION DETAILS
208	Aggregate Base Course
610	Structural Portland Cement Concrete
DIVISION V	TURFING
901	Seeding

The following Recurring Special Provisions shall be applicable to this project except as otherwise noted in these Special Provisions.

<u>ITEM</u>	<u>DESCRIPTION</u>
AR 501001	Portland Cement Concrete Pavement – Method 1

INDEX OF SPECIAL PROVISIONS

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DIVISION 1 - GENERAL PROVISIONS

SECTION 20

SCOPE OF WORK

20-05 MAINTENANCE OF TRAFFIC. Add the following to this subsection:

Air traffic shall be maintained at the Galesburg Municipal Airport during the majority of the construction period. Runway 10-28 and the parallel and connecting taxiways to both runways at the airport shall be closed to traffic for the majority of the construction project. Runway 3-21 shall be kept open for aircraft usage while edge lights, signs, and cabling are being installed on Runway 10-28 and on the airport's various parallel and connecting taxiways in accordance with the recommendations listed on the Improvement and Safety Plan sheet of the construction plans. At such time as edge lights, signs and cabling are being installed on Runway 3-21, Runway 10-28 shall be open to air traffic. It will be necessary to close both runways temporarily, which will close the airport, at such time as construction work at the intersection of the runways is accomplished. The work at the runways' intersection shall be arranged, coordinated and completed as expeditiously as possible in order that a lighted runway can be re-opened to traffic by nightfall. When a runway or taxiway pavement is closed to aircraft for consecutive nights, the Contractor shall disable the appropriate pavement's edge lighting system.

The Contractor will be required to barricade off the work area using barricades equipped with flashing red lights. Work shall be performed on closed sections of the runways and/or taxiways utilizing said barricading so as to separate the construction workmen and vehicles from aircraft that are operating on the airport. The aircraft shall be detoured around the work areas to pavement that is open and that can be used for access to and from the runways. The cost of the barricading and any other methods utilized to separate aircraft from the construction operations shall be considered incidental to the contract and no additional compensation will be allowed.

The National Stearman Fly-In will be held at Galesburg Municipal Airport from September 4 through September 10, 2006 and construction activity should be addressed so as not to have an adverse effect on the success of this event. The Contractor shall coordinate his schedule of construction operations for this week with the Airport Management and the Resident Engineer in order to distance his construction operations from the Fly-In activities and allow for ingress and egress by the aircraft at the airport. An acceptable method of providing for aircraft movement between the ground display area and the active runway shall be coordinated with the Airport Management. The Contractor will not be entitled to any extra compensation due to delays or inconveniences caused by said necessary methods, procedures and measures required to refrain from conflicting with the Fly-In activities.

The Contractor shall coordinate with the airport management to arrange for shutdown of the Runway 3-21 Instrument Landing System (ILS) components and Nav aids (VASI, etc.) by the FAA Airways Facility Unit for the duration of time that Runway 3-21 is closed to air traffic.

The Contractor shall consult with the Airport Manager to coordinate an acceptable area for parking his equipment, construction employees' vehicles, etc. All construction vehicles shall be confined to the work area and all workmen's vehicles shall be confined to the parking area. These vehicles shall not encroach into the active operations area of the airport.

Add the following to this section:

20-08 CONTRACTOR'S SAFETY PRECAUTIONS

It will be the Contractor's responsibility to assure that all safety precautions are exercised when working on the project. The Contractor shall coordinate his work operations with the Airport Manager to arrange an orderly method in which the Contractor can "lock out" the appropriate circuits in the electrical vault in order to perform the work. The equipment shall be "locked out" by the Contractor to include and insure that operation of the remote control switches and the existing radio control system will not energize the circuit while work is being performed. The Contractor shall confirm for himself daily that the circuits that he will be working on or near are inoperable. Upon completion of work, the Contractor shall turn on the circuits that were "locked out" for the work period.

20-09 AIRPORT OPERATIONAL SAFETY DURING CONSTRUCTION

a. Construction Activity and Aircraft Movements

For construction activity to be performed in other than active operational areas, the storage and parking of equipment and materials, when not in use or about to be installed, should not encroach upon active operational areas. Activity control and operational area protection shall be accomplished in accordance with FAA Advisory Circular 150/5370-2E "Operational Safety on Airports During Construction."

b. Limitation on Construction

- (1) Open flame welding or torch cutting operations should be prohibited unless adequate fire and safety precautions are provided and have been approved by the airport manager.

- (2) Open trenches, excavations and stockpiled material at the construction site should be prominently marked with red flags and lighted by light units (acceptable to the airport manager and the FAA) during hours of restricted visibility and/or darkness. Lighted barricades will be used around open trenches and dropoffs near active apron and taxiway pavements.
- (3) Stockpiled material shall be constrained in a manner to prevent movement resulting from aircraft blast or wind conditions.

c. Motorized Vehicles

- (1) When any vehicle other than those routinely used by the airport in the aircraft movement area and runway approach area is required to travel over any portion of that area, it should be escorted by a vehicle properly authorized by the Airport Manager to operate in the area or provided with a flag on a staff so attached to the vehicle so that the flag will be readily visible and directed by a flagman with a radio if crossing active runways or taxiways. The flag should not be less than 3-foot square consisting of a checkered pattern of international orange and white squares of not less than 1 foot on each side and displayed in full view above the vehicle. Any vehicle operating on the movement area during the hours of darkness shall be equipped with a flashing dome-type light, the color to be in accordance with local and/or state codes. Flags will not be required for vehicles engaged in continuous hauling operations from off the site.

d. Debris

Waste and loose material is capable of causing damage to aircraft and should not be placed on active aircraft movement areas. Material tracked on these areas should be removed continuously during the work project. The Contractor shall provide garbage cans in employee parking areas and storage areas for debris.

20-10 HAUL ROUTE MAINTENANCE.

The Contractor shall construct and maintain the haul routes necessary to distribute material at his own expense. This shall include furnishing and installing any temporary culverts necessary to cross existing ditches, etc.

SECTION 30

CONTROL OF WORK

30-06 CONSTRUCTION LAYOUT. Add the following to this subsection:

The Contractor's attention is directed to this subsection of the Supplemental Specifications regarding construction layout requirements and responsibilities. Construction layout shall not be paid for separately, but shall be considered incidental to the pay item for which the layout is required.

30-18 PLANS AND WORK DRAWINGS. Add the following to this subsection:

Revise the word "approval" to read "review" in the first paragraph of this subsection of the Standard Specifications for Construction of Airports.

The Contractor's attention is directed to the third paragraph of this subsection of the Supplemental Specifications concerning manufacturer's letter of certification submittal with the shop drawings stating material conformance to the contract documents requirements.

The following information shall be clearly marked on each shop, working and layout drawing, catalog cut, pamphlet specifications sheet, etc. submitted.

PROJECT LOCATION: Galesburg Municipal Airport

PROJECT TITLE: Install New Edge Lighting Systems on Runway 3-21
And Runway 10-28 and Their Associated Taxiways;
Construct New Electrical Vault For Airfield Lighting

PROJECT NUMBERS: Illinois Project GBG-3433
AIP Project 3-17-0047-B8

CONTRACT ITEM: (i.e. – AR125505 MIRL, Stake Mounted)

SUBMITTED BY: (Contractor/Subcontractor Name)

DATE: (Date Submitted)

30-19 MATERIAL DOCUMENTATION RESPONSIBILITIES OF THE CONTRACTOR:

The Contractor's attention is directed to this subsection of the Supplemental Specifications. Certification letters for the materials used shall be submitted to the Resident Engineer for material documentation purposes.

SECTION 40

CONTROL OF MATERIALS

40-01 SOURCE OF SUPPLY AND QUALITY REQUIREMENTS. Add the following to this subsection:

The following airport lighting equipment is required for this contract and is to be furnished by the Contractor in accordance with the requirements of this subsection:

Equipment Name	Cited FAA Advisory Circular (AC) Specification	Effective FAA AC For Equipment And Manufacturer
L-821 Airport Lighting Control Panel	150/5345-3E	150/5345-53C
L-823 Cable Connector	150/5345-26C	150/5345-53C
L-824 Underground Cable	150/5345-7E	150/5345-53C
L-828 Constant Current Regulator	150/5345-10E	150/5345-53C
L-830 Isolation Transformers	150/5345/47A	150/5345-53C
L-849 REILS	150/5345-51A	150/5345-53C
L-854 Radio Controls	150/5345-49B	150/5345-53C
L-858 Guidance Signs	150/5345-44G	150/5345-53C
L-861 Runway and Taxiway Lights	150/5345-46B	150/5345-53C
L-862 Runway Lights	150/5345-46B	150/5345-53C
L-867 Airport Light Base	150/5345-42D	150/5345-53C

The Contractor will be required to furnish to the Engineer, at the earliest possible time, or as soon as possible after award of the project, but in any case prior to starting the installation work, a list of the electrical equipment and material he proposes to use for the project. This list shall provide identification by the manufacturer, catalog number, and any other information necessary to properly identify the item. This list shall be checked with the actual equipment by the Project Engineer prior to the installation of said equipment.

Special Provisions
Galesburg Municipal Airport

III. Proj. No. GBG-3433
AIP Proj. No. 3-17-0047-B8

Shop drawings of the electrical equipment that are submitted in accordance with subsection 30-18 of these Special Provisions shall constitute compliance with the above paragraph.

40-05 RESIDENT ENGINEER'S FIELD OFFICE. Revise this subsection to read:

The Contractor will not be required to furnish a Resident Engineer's Field Office for this project. The Resident Engineer will use the facilities at the airport that can be made available for his use.

SECTION 50

LEGAL RELATIONS & RESPONSIBILITY TO PUBLIC

50-01 LAWS TO BE OBSERVED. Add the following to this subsection:

In the installation of the work hereunder, the Contractor shall comply in every way with the requirements of the National Electric Code and the appropriate City, County and State laws, ordinances and rules and the requirements of the Division of Aeronautics and the Federal Aviation Administration.

If, in the opinion of the Contractor, there is anything in the drawings or specifications that does not strictly comply with the above laws, ordinances and rules, the matter shall be referred to the attention of the Division of Aeronautics, for a decision before proceeding with that part of the work. No change in the drawings or specifications shall be made without the full consent of the Division.

50-04 PERMITS, LICENSES, AND FEES. Add the following to this subsection:

The Contractor will be required to procure the appropriate permits from the City of Galesburg for the electrical vault building construction (building permit) and for the airfield lighting electrical installation (electrical permit) being accomplished under this project. The Contractor shall obtain and pay for all licenses, permits and inspections required by the laws, ordinances and rules of the City of Galesburg for the work called for in the project drawings, specifications, special provisions and associated supplemental documents. The following City of Galesburg permit fees are provided for the Contractor's information:

Building Permit: \$15.00 for first \$1,000.00 cost and \$5.00 for each additional \$1,000.00 or fraction thereof.

Electrical Permit: \$15.00 for first \$1,000.00 cost or contract bid and \$5.00 for each additional \$1,000.00 or fraction thereof.

50-12 PROTECTION AND RESTORATION OF PROPERTY. Add the following to this subsection:

PROTECTION OF EXISTING UNDERGROUND UTILITIES

Any farm drain tile or other underground construction encountered in the work, but not shown on the drawings, shall be located and staked and reported to the Project Engineer in writing. Any such drainage lines which are cut or damaged by grading, trenching, excavation or other construction activities shall be repaired by the Contractor at his expense in such manner as to render the lines usable for the purpose intended.

PROTECTION OF EXISTING UNDERGROUND CABLE

The Contractor shall take special precautions during his construction operations, so as to avoid any damage or cutting any existing underground cable for existing electrical equipment which will be left in place.

It will be necessary for the Contractor to make his own field investigation to determine the exact location of the underground cable at critical points so as to avoid any cutting or damaging of the cable.

Any existing cable or other utility damages by the Contractor due to his own negligence, shall be repaired by him at his own expense in a manner which is satisfactory to the Engineer.

PROTECTION OF GRADED, TURFED, AND SODDED AREAS

The Contractor shall take special precaution during construction to protect existing graded, turfed, and sodded areas. Any such areas which are disturbed or destroyed by the Contractor, except those areas within the limits of construction, shall be regraded, returfed, or resodded to the satisfaction of the Engineer.

The cost of this work shall be considered as incidental to the contract, and no additional compensation will be allowed.

PROTECTION OF EXISTING PAVEMENT SURFACE AND BUILDING

The Contractor shall take special precautions during construction operations with the use of his hauling equipment, so as not to damage any existing runway, taxiways, apron, entrance roads, service roads, auto parking areas, sidewalks, buildings, and other existing improvements. If it becomes necessary to cross paved runways, taxiway, apron or other paved improvements with hauling equipment, the Contractor shall provide flagmen at point(s) of crossing, and all debris and spillage shall be thoroughly cleaned from the paved surfaces at the end of each day's run, or if the existing pavements are open to air traffic, then the Contractor will be required to provide flagmen with radios who have been properly trained by the airport management to monitor and communicate by radio with the airport personnel at the terminal building. Additionally, the Contractor will be required to clean all debris and spillage immediately so as to insure safety to all air traffic. Any damage to existing pavement shall be repaired by the Contractor at his own expense.

SPECIAL DRAINAGE

In order to prosecute the work in accordance with the construction schedule, and to insure completion within the contract time, it shall be the Contractor's responsibility to provide all labor, equipment and materials as required to prevent the accumulation of water on the construction site, and to remove any accumulation of water at the earliest possible time. Suitable bailing and pumping equipment shall be provided to keep excavations free of water at all times, including Saturdays, Sundays and holidays.

This requirement shall be considered incidental to the work hereunder and no separate payment shall be made therefor.

50-21 ENVIRONMENTAL PROTECTION. Add the following to this subsection:

The Contractor will be required to use whatever methods necessary to minimize the possibility of soil erosion, water pollution and air pollution during the construction process. Some of these are listed below:

1. Air pollution from dust will be kept to a minimum by watering disturbed areas at whatever frequency is necessary in order to control the creation of airborne dust.
2. A buildup of silt in existing ponds, ditches and creeks will not be permitted. It will be the Contractor's responsibility to control this silting action by the construction of silting basins in natural drainage ways.
3. When the construction site must remain in a disturbed condition during the winter and spring, it will be the Contractor's responsibility to take the necessary action to prevent soil erosion to the area surrounding the construction site.
4. Any field tile which was damaged or intercepted will be replaced or integrated into the overall drainage system in a manner acceptable to the Project Engineer.
5. During the construction process when either asphalt or concrete batch plants are operating, the control of these facilities will be regulated by the State Environmental Protection Agency. Prior to the production of any concrete or asphalt a permit will be obtained from the EPA for the operation of these plants. If the Contractor wishes to place an asphalt or concrete batch plant on the construction site, the exact location shall be approved by the Project Engineer prior to the time the plant is set up.

ITEM 108 INSTALLATION OF UNDERGROUND
CABLE FOR AIRPORTS

DESCRIPTION

108-1.1 Add the following after the first sentence of the first paragraph of this section in the Supplemental Specifications:

Cable in unit duct shall be underground cable that is factory assembled in the unit duct.

EQUIPMENT AND MATERIALS

108-2.2 CABLE. Add the following:

Underground cable shall conform to the requirements of FAA Advisory Circular No. 150/5345-7E, "Specification for L-824 Underground Electrical Cable for Airport Lighting Circuits". The cable used on this project shall be No. 8, 5000 volt cable, Type C, One Conductor, Stranded for installation in trench and/or No. 8, 5000 volt cable, Type C, One conductor, Stranded in unit duct for installation by plowing. The unit duct will be $\frac{3}{4}$ inch in diameter.

Revise the first sentence of the second paragraph of the Standard Specifications to read:

All cable for airport lighting service shall be stranded via: 600 volt – 7 strand; 5000 volt – either 7 strand or 19 strand.

108-2.4 CABLE CONNECTIONS. Add the following to this section:

The type of connections to be used for the underground cable shall be Type I, Class B, Styles 3 and 10 in accordance with the Specification for L-823 Plug and Receptacle, Cable Connectors.

CONSTRUCTION METHODS

108-3.1 GENERAL. Add the following to this section:

The cable quantities as shown on the Construction Plans are based on straight line measurement and do not consider any vertical distances or the required cable slack as stated under Item 108-3.4 in the Standard Specifications.

If the Contractor desires to lay cable on a line other than that shown on the plans, he shall obtain approval of the Project Engineer before doing so. Any additional cable needed because of such change will be at the Contractor's expense.

New underground cable that is installed under this project shall be marked so as to identify its associated circuit at all locations such as ducts, handholes, manholes, etc. when other airfield lighting circuit cables are in the same location. The type of marking shall be recorded and given to the Airport Manager for the records of the airport. The cost of this work shall be considered incidental to the cable installation.

The unit duct shall be installed so that it is possible to withdraw a cable and pull in a new one. Sweeping long radius bends shall be used. Any run with a kink or short radius bend will be rejected. The cable in unit duct will be installed continuous between lights without any splices in cable or unit duct.

At base mounted lighting units, the unit duct will be inserted completely inside each of the units' conduit extensions and then the outside end of the conduit extension sealed with duct seal. The end of the unit duct will be sealed inside the lighting unit using heat shrink tubing as shown in the lighting units details in the construction plans.

108-3.2 INSTALLATION IN DUCT OR CONDUIT. Add the following to this section:

At locations where proposed cable is to be installed in existing duct and mud and debris are encountered in the duct, the Contractor shall clean out the duct as is necessary to install the proposed cable. The cost of this work shall be considered incidental to the cable installation.

108-3.3 TRENCHING. Add the following to this section:

Cable trenches shall be excavated to a minimum depth of 18" below the finished grade on the airport property as specified in this section.

108-3.4 INSTALLATION IN TRENCHES. Add the following to this section:

Underground cable to be installed in trench shall be installed in accordance with this section. A cable plow shall not be used for installing cable that is to be installed in trench.

The underground cable in unit duct shall be installed by plowing the factory assembled cable and unit duct in to a minimum depth of 18 inches below finished grade.

At locations where proposed cable is to be placed at the same location of an existing cable that is to be abandoned, the existing cable that is encountered and exposed during trenching and duct routing shall be removed from the trench or duct and disposed of.

The cost of removing and disposing of the existing cable shall be considered incidental to the contract unit price per linear foot for the underground cable installation, and no additional compensation will be allowed.

108-3.6 RESTORATION. Add the following to this section:

All areas disturbed during the installation of the proposed cable will be restored to their original condition and/or fertilized and seeded. Any locally available 12-12-12 fertilizer may be used to provide the required fertilizer for the reseeding areas. The fertilizer will be applied at a rate of one (1) pound of fertilizer per each 160 square feet of disturbed or reseeding area. The amount of disturbed area to be fertilized and seeded will be determined by the Resident Engineer. Seed used shall be Kentucky 31 or Alta Fescue, applied at the rate of one (1) pound of pure live seed per each 436 square feet of reseeding area.

All restoration work, including fertilizing and seeding, shall be considered incidental to Item 108 and no additional compensation will be allowed.

108-3.9 BARE COUNTERPOISE WIRE INSTALLATION AND GROUNDING FOR LIGHTNING PROTECTION. Add the following to this section:

The installation of bare counterpoise wire in the same trench for the entire length of the insulated cables for the lighting circuits will not be required.

METHOD OF MEASUREMENT

108-4.2 Add the following:

No separate measurement will be made for plowing the cable in unit duct in place. No separate measurement will be made for the trenching performed in order to install cable in unit duct in a cable trench. The cost of this work shall be included in the contract unit price for the completed installation of cable in unit duct.

BASIS OF PAYMENT

108-5.1 Add the following:

Payment will be made at the contract unit price for trenching and for cable installed in trench; and for cable factory assembled in unit duct installed either by plowing or by trenching; all completed by the Contractor in place and accepted by the Engineer.

This price shall be full compensation for furnishing all materials; for all preparation; splicing and installation of these materials; and for all labor, equipment, tools, and incidentals necessary to complete this item.

Payment will be made under:

- | | |
|---------------|---|
| Item AR108000 | Cable Trench -- per linear foot |
| Item AR108108 | 1/C #8 5 KV UG V Cable -- per linear foot |
| Item AR108158 | 1/C #8 5 KV UG Cable in UD -- per linear foot |

ITEM 109 INSTALLATION OF AIRPORT
TRANSFORMER VAULT AND VAULT EQUIPMENT

DESCRIPTION

109-1.1 Add the following to this section:

This item shall consist of an airport electrical vault building constructed and installed in accordance with this Special Provision at the location and in accordance with the design and dimensions shown in the plans. This work shall also include the installation of conduits in floor and foundation, painting the exterior door and other building components requiring a painted finished surface, and the furnishing of all incidentals necessary to produce a completed unit.

Included as separate work items under this item shall be the furnishing and installing of new electrical equipment in the new vault to provide interior and exterior building lighting, light switches and receptacles; to provide for powering the edge lighting circuits for Runway 3-21, Runway 10-28, and Taxiway Circuit Nos. 1 and 2; to provide for powering existing airfield equipment such as the beacon, wind tee and apron pole lights; and to provide for the installation of relays and interfaces necessary for the radio control operation of the airfield lighting system. The work shall include the furnishing and installation of all new electrical equipment that is specified, control wiring, power cable, conduit and cable trays, and other equipment, work and incidentals necessary to furnish and place the proposed airfield lighting vault equipment in operation as a complete electrical vault equipment installation.

Also included as separate work items under this item shall be the furnishing and installation of electrical service entrance for the new vault and power feed to the existing maintenance building; removal and disposal of existing electrical equipment in the existing metal transclosure; removal and disposition of the existing airfield lighting constant current regulators; and removal and disposal of the existing metal electrical transclosure and associated concrete base.

The work under this item shall include marking and labeling of equipment, labeling or tagging of wires, the testing of the installation, and the instruction of the airport personnel in the operation of the lighting system installation. Manufacturers' parts and maintenance manuals covering the new constant current regulators, radio control equipment and other new equipment furnished and installed shall be provided to the Airport by the Contractor.

This work shall be accomplished in accordance with Item 109 of the Standard Specifications for Construction of Airports and Item 109 of the Supplemental Specifications with the following additions, deletions and amendments.

VAULT AND PRE-FABRICATED METAL HOUSING

109-2.21 FAA-APPROVED EQUIPMENT. Add the following to this section:

The new 7.5 KW, air-cooled, constant current regulators, 240 V., 60 Hz., single phase input, 6.6 amperes output, with 3 brightness steps for 120 V. remote control shall conform to FAA Specification Type L-828, Class 1, Style 1.

The new 20 KW, air cooled, constant current regulator, 240 V., 60 Hz., single phase input, 6.6 amperes output, with 3 brightness steps for 120 V. remote control shall conform to FAA Specification Type L-828, Class 1, Style 1.

The new 20 KW, air cooled, constant current regulator, 240 V., 60 Hz., single phase input, 6.6 amperes output, with 5 brightness steps for 120 V., remote control shall conform to FAA Specification Type L-828, Class 1, Style 2.

The new conventional airport lighting control panel shall conform to FAA Specification for L-821 Panels, Type 1, Class F, Style 1, Mode 1, 120 volts AC, 50/60 cycles.

The new radio control receiver/controller shall conform to FAA Specification for L-854 Radio Control Equipment, Type I.

109-2.23 WIRE. Add the following to this section:

All power and control circuit wire installed between electrical equipment in the vault shall be Type THW or THHN rated 600 volt. New control wiring shall be No. 12 AWG minimum and new power feed wiring shall be sized as indicated in the construction plans. All conductors shall be copper; aluminum will not be accepted.

The electrical equipment installed under this contract shall be grounded using No. 6 copper wire, stranded.

Add the following to this item:

109-2.24 ELECTRICAL VAULT BUILDING. A new split face concrete block type building with concrete foundation and floor shall be constructed for the new electrical vault building. This building shall measure 17'-4" x 21'-4" x 8'-8" sidewall height to top of masonry. The roof shall be constructed using 2x4 trusses, 3/4" plywood sheathing and standing seam metal roof panels. The building construction shall include all primary and secondary structural framing members, connection bolts and nails, door and hardware flashing, closures, sealers, insulation, metal covered fascia and soffit, interior ceiling and trim, and other miscellaneous items required for completion of the building in accordance with the details shown in the construction plans and specified in these Special Provisions and in the Supplemental Special Provisions contained herein.

CONSTRUCTION METHODS

CONSTRUCTION OF VAULT AND PREFABRICATED METAL HOUSING

109-3.1 THROUGH 109-3.9 The applicable portions of these sections shall apply to the work, with the following additions, deletions and/or amendments:

109-3.1 GENERAL. Revise the first paragraph to read as follows:

The Contractor shall construct the new electrical vault building at the location shown in the construction plans in accordance with the details shown in the plans and in accordance with the requirements of the applicable Supplemental Special Provisions for the building construction that are contained herein.

109-3.2 ROOF. Revise this section to read as follows:

The roof shall be a standing seam metal roof installed over plywood sheathing and wood trusses. For detailed roof material and construction requirements, refer to the Supplemental Special Provisions for this work.

109-3.4 FLOOR. Revise the fifth and eighth sentences to read:

A layer of 6 mil visqueen vapor barrier shall be placed over the fill prior to placing concrete. A ½ inch preformed joint filler and sealant shall be placed between the concrete floor and foundation walls.

109-3.5 FLOOR DRAIN. Delete this section.

109-3.6 CONDUITS IN FLOOR AND FOUNDATION. Add the following to this section:

All necessary conduits to be installed in the floor and through the foundation shall be coordinated between the building contractor and the electrical contractor and positioned prior to constructing the concrete foundation and floor.

109-3.8 PAINTING. Revise this section to read:

Painting of the floor and the pre-finished ceiling and interior surfaces of the block walls will not be required.

All primed or unfinished doors, lintels, trim boards, etc. shall be finish painted in accordance with the painting requirements specified in the Supplemental Special Provisions.

109-3.9 LIGHTS AND SWITCHES. Revise this section to read:

The Contractor shall furnish and install light fixtures, switches, duplex receptacles, etc. as shown and specified in the vault lighting and receptacles detail sheet in the construction plans.

INSTALLATION OF EQUIPMENT IN VAULT
OR PRE-FABRICATED METAL HOUSING

109-3.10 GENERAL. Add the following to this section:

The Contractor shall furnish and install all necessary equipment in the electrical vault building and perform all work necessary to complete the airfield lighting equipment installation in the vault building. Work to be performed and equipment to be furnished and installed shall include, but not be limited to the following work and pay item descriptions:

INSTALL ELECTRICAL EQUIPMENT

1. New 600 amp, 120/240 V., 3-pole, fused disconnect switch in NEMA 1 enclosure for service entrance into vault.
2. New 600 amp, 120/240 V., 3-phase, 4-wire power panel in new vault. Provide circuit breakers as required. Minimum RMS symmetrical interrupting capacity to be 22,000 amperes for main breaker and 10,000 amperes for branch breakers.
3. Three 30 amp, 2-pole contactors with 120 V., coil in NEMA 1 enclosures for beacon, wind tee and pole lights control.
4. Separate 4" X 4" square ducts with hinged or removable front covers as required for control cables, low voltage cables and high voltage cables.
5. 1/8" x 3/4" ground bus installed on sides of electrical vault building as shown in construction plans with bare CU #1/0 connection from ground bus to power panel.
6. Conduits stubbed out of vault as shown in construction plans for airfield lighting cables, wind tee cable, beacon cable, pole lights cable, etc., including spare conduit shown adjacent to airfield lighting cable conduit.
7. Ground field with 3 – 5/8" diameter x 10' copperweld rods tied together with bare CU. #1/0 wire installed outside new vault building and connected to power panel ground bus.
8. New 30" x 30" x 12" NEMA 4 junction box for field lighting cables.

9. New rigid and flexible metal conduits for routing power feed, control and airfield lighting series circuit wiring, and for power supply wiring for switches, receptacles, light fixtures, heater, ventilation equipment, etc.
10. 2 new adjustable photocells with socket assembly, 125 V., 20-amp minimum, one for the radio control system and one for the beacon, wind tee and pole lights control.
11. Duplex receptacles as required, 20 amp, 125 V. ground fault interrupter type. Box and cover plate shall be stainless steel.
12. Light switches as required, 20 amp, 125 V., single pole. Box and cover plate shall be stainless steel.
13. Interior and exterior light fixtures as described in the fixture schedule contained in the construction plans.
14. New 10 KW, 3-phase unit heater as shown and described in the construction plans.
15. One 18" x 18" motor operated intake louver with birdscreen, as described in the ventilation schedule in the construction plans.
16. One 12" x 12" exhaust grille with backdraft damper and exhaust fan with motor thermal switch and thermostatic and motor speed control, as described in the ventilation schedule in the construction plans.
17. Four new series cutouts in NEMA 1 enclosures, one for each runway and taxiway series circuit. Series cutout to be Crouse-Hinds S-1 series plug cutout or approved equivalent.
18. Furnish and install all wiring in the electrical vault building sized as shown in the construction plans for connection to the 600 amp disconnect switch, 600 amp 3-phase power panel, regulators, control panel, radio control system, light fixtures and receptacles, heater, ventilation equipment and other equipment powered and controlled in the electrical vault.

Installation of all wiring, conduit, junction boxes, etc. and completing all wiring connections required for power and control wiring inside the vault and all other equipment and incidentals necessary to complete the electrical equipment installation in the electrical vault under this project for which there is no separate pay item shall be included in the bid price to install electrical equipment.

CONSTANT CURRENT REGULATORS

1. Furnish and install in the electrical vault building one 7.5 KW regulator, style 1 for each of the following airfield lighting circuits: Runway 10-28 and Taxiway Circuit No. 2. The regulators shall be new L-828 7.5 KW, air cooled, constant current regulators, 240 V., 60 Hz, single phase input, 6.6 amperes output, with 3 brightness steps for 120 V. remote control.
2. Furnish and install in the electrical vault building one 20 KW regulator, style 1 for the airfield lighting circuit of Taxiway Circuit No. 1. The regulator shall be a new L-828 20 KW, air cooled, constant current regulator, 240 V., 60 Hz., single phase input, 6.6 amperes output, with 3 brightness steps for 120 V. remote control.
3. Furnish and install in the electrical vault building one 20 KW regulator, style 2 for the airfield lighting circuit of Runway 3-21. The regulator shall be a new L-828 20 KW, air cooled, constant current regulator, 240 V., 60 Hz., single phase input, 6.6 amperes output, with 5 brightness steps for 120 V. remote control.

POWER CABLE INSTALLATION

1. The Contractor shall furnish and install all equipment and materials and perform all work to provide an underground power cable installation from the new power panel in the new electrical vault to the existing power panel in the maintenance building. This work shall be performed at the location shown in the construction plans on the Vault Electrical Service Feed Details sheet. The work for the power cable installation shall include, but not be limited to the following:
 - a. Disconnect the existing service feed cables to the maintenance building. Remove and return the meter to the utility company. Cap the conduit after the meter fitting removal.
 - b. Furnish and install 3 - #4/0 and 1 - #2 direct burial cables from the power panel in the new electrical vault building to the existing power panel in the existing maintenance building. The cables shall be installed in rigid steel conduit where it is located above grade from the power panels to the underground cable trench outside the associated buildings.
 - c. Remove the wires from the existing disconnect switch in the maintenance building that feeds power to the existing electrical transclosure. Abandon the existing conduit at the maintenance building.
 - d. Perform all trenching, backfill and restoration grading and seeding of the areas disturbed during the work to install the underground cable as a completed power cable installation.

ELECTRIC SERVICE ENTRANCE

1. The Contractor shall furnish and install all specified equipment and materials and perform all specified work so as to provide underground electrical service feed from the point indicated at the utility company's service pole to the service feed entrance into the new electrical vault and connection to the 600 ampere, 3 pole, fused disconnect switch inside the vault. This work shall be performed at the locations shown in the construction plans on the Vault Electrical Service Feed Details sheet. Installation of the electric service entrance shall include, but not be limited to the following:
 - a. Contractor shall coordinate with Ameren-IP to arrange for the service pole installation and the underground cable installation in the Contractor installed 2 – 4" conduits (1 service cable conduit, 1 spare conduit) between the service pole and the new electrical vault building. Ameren-IP shall provide 600 amp, 120/240 V., 3-phase service at the utility's service pole and shall provide and install the required service feed cables in one of the Contractor installed conduits from the service pole to the Contractor installed CT cabinet at the vault building. For installation details and responsibilities see Illinois Power (Ameren-IP) Form 305-69 and associated standards (secs. 21-4.501 and 21-4.502), copies of which are included in these Special Provisions.
 - b. The Contractor shall furnish and install 2 – 4" rigid steel conduits up the service pole to 10' above grade and furnish and install 2 – 4" conduits from the service pole to the CT cabinet at the new electrical vault building. Conduit elbows below grade to be steel long sweep type and straight conduit sections below grade to be PVC Schedule 40 minimum. Contractor shall also furnish and install the CT cabinet, meter fitting and 2 – 4" conduits with 4 - #400 MCM and 1 - #1/0 1/C, 600 V. wires in each conduit from the CT cabinet to the 600 amp, 3 pole, 240 V. fused main disconnect in the vault building. Ground wires and ground rods at the service pole and at the CT cabinet on the vault building shall be furnished and installed by the Contractor. The Contractor shall coordinate this installation with Ameren-IP in order that the Contractor will supply and install a meter fitting enclosure that is compatible with the meter that is to be furnished and installed by Ameren-IP.
 - c. Perform all trenching, backfill and restoration grading and seeding of the areas disturbed during the work to install the underground conduit as a completed installation.
 - d. Any pavement removed in order to install the underground conduits, etc. shall be replaced in kind as to pavement course type or composition and thickness. This work shall be included in the price bid for Electric Service Entrance per lump sum.

L-821 CONTROL PANEL

1. Install a new airport lighting control panel mounted in a stand alone cabinet and console in the electrical vault building. The control panel shall be a new FAA approved L-821 conventional airport lighting control panel, Type 1, Class F, Style 1, Mode 1, 120 volts AC, 50/60 cycles as manufactured by Universe, Inc. or other approved equivalent. The control panel shall be fabricated with the following equipment installed:
 - a. Runway 3-21: 1 – on/off switch and 1 – multiple position switch for brightness steps 1 through 5.
 - b. Runway 10-28: 1 – on/off switch and 1-multiple position switch for brightness steps 10%, 30%, 100%.
 - c. Taxiway Circuit Numbers 1 and 2: 1 – on/off switch and 1-multiple position switch for brightness steps 10%, 30%, 100%.
 - d. Beacon, wind tee, radio control and photocell bypass: 1 – on/off switch for each control circuit.
 - e. Spare control switches: 2 – on/off switches and 2 - multiple position switches for brightness steps 10%, 30%, 100%; 3 – on/off switches for spare control circuits.

The conventional control panel may be assembled using either toggle switch power control or rotary switch power control for all runway and taxiway circuits lighting control, at the contractor's option.

The new airport lighting control panel shall be fabricated in accordance with the requirements of FAA Advisory Circular 150/5345-3E and shall contain all necessary panel components as shown on the construction plan drawings.

2. Include the furnishing and installation of a stand alone cabinet and console with the lump sum price bid for the L-821 control panel. The stand alone cabinet and turret type console that the L-821 control panel is to be mounted in shall be a modular type enclosure cabinet and console as manufactured by Emcor Enclosures or an approved equivalent. The cabinet shall be fabricated for use as a stand alone or stationary cabinet (i.e. – no bottom rollers on cabinet). The flush mounted L-821 conventional airport lighting control panel shall be mounted in the turret type or slope front console. The cabinet and console shall possess metal side and back panels and a front access door and be of the approximate dimensions as indicated in the detail in the construction plans. If the Contractor elects to fabricate the cabinet and console, the frames, side and back panels and door shall be of 14 ga. minimum construction. Shop drawings for the cabinet and console fabrication shall be submitted to the Project Engineer for review. The surface finish of the cabinet

and console shall be a hard paint finish using enamel, powder coating, etc. in a color and texture that either matches the Federal Standard 595, brown No. 30372 used on the airport lighting control panel or coordinates with the finish color of the airport lighting control panel.

L-854 PCAL SYSTEM

1. A new specification L-854 radio control (receiver/controller) Type I shall be furnished and installed in the electrical vault with antenna, all in accordance with the installation details shown in the construction plans. The receiver/controller shall be a Model RS-1T5A as manufactured by Control Industries, Inc. or other approved equivalent. The receiver shall operate on the Unicom channel frequency, 123.0 MHZ.
2. A new radio receiver/controller interface control unit with radio control interface and airfield lighting equipment control relays shall be furnished and installed in the electrical vault as part of the L-854 PCAL system installation; all in accordance with the interface panel details shown in the construction plans. The interface panel shall be as manufactured by Control Industries, Inc., Universe, Inc. or other approved equivalent.

REMOVE ELECTRICAL EQUIPMENT

1. Remove and dispose of all electrical equipment that presently exists in the existing transclosure and is not being paid for under separate removal pay items. Equipment to be removed and disposed of shall include, but not be limited to the following:
 - a. Existing power distribution panel
 - b. Existing contractors for beacon, wind tee and apron lights.
 - c. Existing square duct and conduit
 - d. Existing radio control receiver/controller, radio antenna, photocell equipment and radio control relays and interface relays
 - e. Existing regulator control transfer relays
 - f. Existing 200 amp disconnect switch
 - g. Existing fused cutouts and series cutouts
 - h. Existing power feed and control wiring contained in the transclosure
2. All equipment removed shall be disposed of by the Contractor at a location off the airport site that is provided by the Contractor.

REMOVE REGULATOR

1. Remove the existing regulators from the existing electrical transclosure and transport them to a location on the airport designated by the airport management and place the units at that location for storage. The removed regulators shall be the property of the Galesburg Municipal Airport for their use as spare units or for the airport's disposition.

REMOVE CONTROL PANEL

1. Disconnect all control wiring from the existing airfield lighting control panel that is located in the airport terminal building and remove said lighting control panel from its existing location. All components of the removed lighting control panel shall be disposed of by the Contractor at a location off the airport site that is provided by the Contractor.

REMOVE ELECTRICAL TRANSCLOSURE

1. Remove and dispose of the existing metal transclosure housings and associated concrete base as a whole unit of removal. Remove all associated conduits extending from the interior of the transclosure through the concrete base to below grade out to a minimum distance of 36" beyond the concrete base. Seal the ends of existing underground ducts that remain in place.
2. All items removed shall be disposed of by the Contractor at a location off the airport site that is provided by the Contractor.
3. The Contractor shall clear, grade to drain, and seed the disturbed area resulting from the removal of the transclosure concrete base. A locally available 12-12-12 fertilizer may be used at an application rate of one (1) pound of fertilizer per each 160 square feet of disturbed area. Seed used shall be Kentucky 31 or Alta Fescue applied at the rate of one (1) pound of pure live seed per each 436 square feet of reseeding area.

109-3.13 DUCT AND CONDUIT. Add the following to this section:

All conduit used to route wiring and install new electrical equipment inside the vault building shall be rigid steel conduit and square duct, excepting that final conduit connections to the airfield lighting regulators shall be made with galvanized flexible metallic conduit, as necessary to complete the installation. The conduit shall be sized as necessary for the number of conductors it contains in conformance with the National Electrical Code, latest edition.

All steel conduits, fittings, nuts, bolts, etc. shall be galvanized. Use conduit bushings and double lock nuts at each conduit termination.

109-3.16 MARKING AND LABELING. Add the following to this section:

The identification labels to be installed on the cases of the new regulators shall be pressure sensitive reflective labels or adhesive-backed engraved name plates with letters and numerals being not less than 1 inch in height and of proportionate width. Each identification label shall designate the lighting circuit that is powered by the regulator (i.e. – Runway 3-21 , Runway 10-28, Taxiway Circuit No. 1, Taxiway Circuit No. 2, etc.).

The labels to be installed on the cases of relay panel, interface panel, radio control, etc. shall be pressure sensitive or adhesive backed, engraved nameplates with letters and numerals being not less than one-half inch in height and of proportionate width.

Add the following to this item:

109-3.17 RELAY/CONTACTOR ENCLOSURES. The assembly and installation of relay/contactor/interface panel enclosures, etc. shall comply with the following requirements:

- a. All components shall be mounted in dustproof enclosure(s) with hinged covers.
- b. The enclosure(s) shall have ample space for the circuit components, terminal blocks, and incoming and internal wiring.
- c. All incoming/outgoing wiring shall be terminated at terminal blocks.
- d. Each terminal on terminal blocks and on circuit components and wires connected to it shall be clearly identified.
- e. When the enclosure cover is opened, all circuit components, wiring, and terminals shall be exposed and accessible without removal of any panels, covers, etc.
- f. Each circuit component shall be clearly identified.
- g. A complete wiring diagram (not a schematic diagram) shall be mounted on the inside of cover. The diagram shall represent each conductor by a separate line.
- h. The diagram shall identify each circuit component and numbering and coloring of each internal conductor and terminal.
- i. All wiring shall be neatly trained and laced.

METHOD OF MEASUREMENT

109-4.3 Revise this section to read as follows:

The quantity to install electrical equipment to be paid for under this item shall be measured per lump sum and shall consist of all equipment, conduit, wiring, etc. installed in the electrical vault; said equipment and work as described in Section 109-3.10; connected and accepted as a complete unit, ready for operation excepting the equipment designated to be measured and paid for as separate items.

The quantity of regulators to be paid for shall consist of the number of regulators installed in the electrical vault, connected, tested, and accepted as completed units in place, ready for operation.

The quantity for power cable installation and electric service installation to be paid for shall be measured per lump sum for each type installation and shall consist of all equipment, conduit, wiring, trenching, restoration and seeding; with all connections made and the work accepted as a complete unit, ready for operation.

The quantity of L-821 control panel installation to be paid for under this item shall be measured per each for the control panel installation, in cabinet and console, at the location designated and shall consist of all components, wiring, etc. installed in place, said equipment and work as described in Section 109-3.10, connected and accepted as a complete unit ready for operation.

The quantity of L-854 PCAL system installation to be paid for under this item shall be measured per lump sum and shall consist of all equipment installed in the electrical vault, said equipment and work as described in Section 109-3.10; connected and accepted as a complete unit, ready for operation.

The quantity for remove electrical equipment, remove control panel, and remove electrical transclosure to be paid for shall be measured per lump sum for each type removal, said removal as described in Section 109-3.10; and the work accepted as a completed item.

The quantity of regulator removal to be paid for shall consist of the number of existing regulators that are disconnected, removed, and transported to the designated storage location; said work accepted as a completed item.

BASIS OF PAYMENT

109-5.1 Add the following to this section:

Payment will be made at the contract unit price per lump sum for Install Electrical Equipment, for Power Cable Installation, for Electric Service Entrance, for L-854 PCAL System, for Remove Electrical Equipment, for Remove Control Panel, and for Remove Electrical Transclosure.

Payment will be made at the contract unit price per each for the number of new regulators of each type installed in place, for the L-821 control panel installation, and for the number of existing regulators removed and disposed of.

This price shall be full compensation for furnishing all required new materials and for all preparation, assembly and installation of these materials; for all existing equipment removal and disposal that is required; for all start-up and testing of equipment; and for all labor, tools, equipment and incidentals necessary to complete the installation of the items into an operational installation.

Payment will be made under:

- | | |
|---------------|---|
| Item AR109100 | Construct Electrical Vault - - per lump sum |
| Item AR109200 | Install Electrical Equipment - - per lump sum |
| Item AR109311 | 7.5 KW Regulator Style 1 - - per each |
| Item AR109341 | 20 KW Regulator, Style 1 - - per each |
| Item AR109342 | 20 KW Regulator, Style 2 - - per each |
| Item AR109530 | Power Cable Installation - - per lump sum |
| Item AR109535 | Electric Service Entrance - - per lump sum |
| Item AR109600 | L-821 Control Panel - - per each |
| Item AR109610 | L-854 PCAL System - - per lump sum |
| Item AR109902 | Remove Electrical Equipment - - per lump sum |
| Item AR109903 | Remove Regulator - - per each |
| Item AR109909 | Remove Control Panel - - per lump sum |
| Item AR109910 | Remove Electrical Transclosure - - per lump sum |

ITEM 110 INSTALLATION OF AIRPORT UNDERGROUND ELECTRICAL DUCT

DESCRIPTION

110-1.1 Add the following:

This item shall also consist of the construction of an electrical manhole and the installation of a 4" steel duct jacked under the existing pavement at the locations shown in the plans.

Trenching and backfilling for the electrical manhole, and ducts shall not be paid for separately, but shall be considered incidental to the associated manhole or duct.

EQUIPMENT AND MATERIALS

110-2.1 GENERAL. Add the following:

Conduits for jacking in place shall be 4" I.D. galvanized rigid steel in accordance with Section 110-2.5 of this item.

Add the following to this item:

110-2.8 ELECTRICAL MANHOLE. The electrical manhole shall be constructed as shown in the detail in the construction plans. The electrical manhole shall include openings for duct banks to route the field lighting cables through the manhole and shall also include a cast iron frame and closed lid. The frame and lid shall be NEENAH Cat. No. R-1669 or an approved equivalent.

CONSTRUCTION METHODS

110-3.1 GENERAL. Add the following to this section:

The Contractor shall install the electrical manhole in the location shown in the construction plans. The proposed No. 8, 1/C 5 KV cables for the airfield lighting circuits that are installed from the electrical vault through trench and duct to the electrical manhole shall be spliced to the cables in unit duct that extend from the manhole to the field lighting fixtures using a field attached plug-in splice. The cost of furnishing and installing the splices shall be included in the price bid for the electrical manhole.

The electrical manhole shall be constructed in accordance with the applicable portions of the materials and construction methods specified under Item 751 of the Standard Specifications for Construction of Airports.

110-3.4 DUCT MARKERS. Revise this section to read:

The location of all ducts shall be marked by installing a 2' x 2' concrete duct marker at each end of duct, all as shown in the details included in the construction plans. The cost of installing the duct markers specified shall be include din the price bid for the underground duct installation.

METHOD OF MEASUREMENT

110-4.1 Revise this section to read:

The quantity of 4" steel duct, jacked to be paid for shall be the number of linear feet of the steel duct installed, measured in place from end to end, completed and accepted.

No separate measurement will be made for furnishing and installing the duct markers specified under this item of work. The duct markers shall be considered a subsidiary obligation required in order to complete the duct installation and the cost of such work shall be included in the cost of the duct installation.

Add the following to this item:

110-4.2 The quantity of electrical manholes to be paid for shall be the number of electrical manholes installed as a completed unit with cast iron frame and lid, cables spliced, and the duct banks stubbed out of the manhole as shown in the construction plans.

BASIS OF PAYMENT

110-5.1 Add the following to this section:

Payment will be made at the contract unit price for each electrical manhole completed and accepted. This price shall be full compensation for furnishing all materials and for all preparation, assembly, and installation of these materials, including excavation and backfill, and for all labor, equipment, tools and incidentals necessary to complete this item.

Payment will be made under:

Item AR110314 4" Steel Duct, Jacked -- per linear foot

Item AR110710 Electrical Manhole -- per each

ITEM 125 INSTALLATION OF AIRPORT LIGHTING SYSTEMS

DESCRIPTIONS

125-1.1 Add the following to this section:

This item shall consist of new High Intensity Runway Edge and Threshold Lights, base mounted; new Medium Intensity Runway Edge and Threshold Lights, base and stake mounted; new Medium Intensity Taxiway Edge Lights, base and stake mounted; new taxi guidance signs; and new Runway End Identification Light (REIL) units in a pair as a completed REIL System for one runway end; all installed in accordance with this specification at the locations and in conformity with the dimensions, design and details shown in the construction plans. This item shall include furnishing and installing the required types of lighting fixtures and component parts such as lens, lamp, mounting base or stake, transformer, etc.

Included in this item will be the removal of existing base and stake mounted edge lights; the removal of existing guidance signs; and the removal of existing REIL units; all at the locations shown in the plans.

This item shall also include all wire and cable connections, the testing of the installation, any adjustment of the light beams, and all incidentals necessary to place the lighting fixture in operation as a completed unit to the satisfaction of the Engineer.

Parts and maintenance manuals covering the REIL equipment and the taxi guidance signs shall be furnished to the Airport maintenance personnel by the Contractor.

EQUIPMENT AND MATERIALS

125-2.7 ISOLATION TRANSFORMERS. Add the following:

Isolation transformers shall be Type L-830 and shall conform to FAA Advisory Circular 150/5345-47A. The lighting fixtures, REIL units and signs shall be supplied with transformers of the wattage recommended by the light fixture, REIL unit and sign manufacturer.

125-2.8 LIGHT CANS. Add the following:

Steel bases for base mounted edge lights, signs, and REIL units shall be Type L-867, Class 1, Size B and Size D. The size of the steel bases for the REIL installation may differ from this requirement, provided a different size is recommended for use by the equipment manufacturer. All steel bases shall conform to FAA Advisory Circular 150/5345-42D.

125-2.9 LIGHT LENS. Delete this Section from the Supplemental Specifications and insert the following section:

125-2.9 LIGHTS. High Intensity Runway Edge Lights (HIRL) shall be Type L-862 with 360° white lenses or 180° yellow/180° white lenses and shall utilize 120 watt quartz bulbs. High Intensity Runway Threshold Lights shall be Type L-862E with 180° red/180° green lenses and shall utilize 200 watt quartz bulbs. The High Intensity Runway Light fixtures shall be base mounted.

Medium Intensity Runway Edge Lights (MIRL) shall be Type L-861 with 360° white lenses and shall utilize 30 watt incandescent bulbs. Medium Intensity Runway Threshold Lights shall be Type L-861E with 180° red/180° green lenses and shall utilize 45 watt incandescent bulbs. The light fixtures shall be either base or stake mounted, as designated by location in the construction plans.

Medium Intensity Taxiway Edge Lights (MITL) shall be Type L-861T with blue lenses and shall utilize 30 watt incandescent bulbs. The light fixtures shall be either base or stake mounted, as designated by location in the construction plans.

The light fixtures installed under this project shall be metallic component fixtures. Non-metallic light fixture components such as lamp heads, stems, breakable couplings, etc. will not be accepted for use on this project.

The new runway and taxiway light fixtures shall be installed at a height of 24 inches above grade. All light fixtures shall be for series circuits and shall conform to FAA Advisory Circular 150/5345-46B.

125-2.10 IDENTIFICATION NUMBER. An identifying number shall be assigned to each light and sign in accordance with the Construction Plans. The identification tag shall be as shown on the detail in the plans. The cost of this tag shall be included in the unit price bid for the light and sign and no additional compensation will be allowed.

125-2.11 AIRFIELD SIGNS. Add the following:

Taxi guidance signs shall be Type L-858Y, L-858R and L-858L, Size 1, Styles 2 and 3, and Class 2. The signs connected into the high intensity lighting circuit of Runway 3-21 shall be Style 3. The signs connected into the medium intensity lighting circuits of all the taxiways and of Runway 10-28 shall be Style 2. The taxi guidance and holding signs shall be internally lighted signs with an 18-inch face and a 12-inch legend.

The signs shall be mounted on a concrete pad with steel base housing the sign transformer, in accordance with the detail for the guidance sign bases shown in the construction plans. The signs shall conform to FAA Advisory Circular 150/5345-44G.

124-2.14 TESTING. Prior to final acceptance, the completed new lighting circuits and electrical equipment shall be tested and meggered as specified for Underground Cable under Item No. 108-3.10, Testing of the Standard Specifications. This includes testing the insulation of underground circuit conductors with a 500-volt megger type tester. The readings shall be recorded and submitted to the Project Engineer.

125-2.15 REILS. The REIL units shall be discharge-type flashing light equipment, Type L-849I, Style A capable of operation from a series lighting circuit and shall conform to Advisory Circular 150/5345-51A. The REIL equipment shall be powered by the Runway 3-21 high intensity series lighting circuit (2.8 amps to 6.6 amps) which is powered by a five brightness step 20 KW dry-type constant current regulator, 240 V., 60 Hz, single phase input, 6.6 amperes output. The REIL equipment on Runway End 21 shall be activated when the Runway 3-21 H.I. series lighting is switched to the Step 5 or 100% brightness (6.6 amps).

The REIL units shall be installed in a pair as a completed REIL System for one runway end which shall consist of one master REIL unit and one slave REIL unit; both units being mounted on concrete encased Type L-867 steel bases; with the necessary Type L-830 transformers and adapter units installed in a Type L-867 steel base adjacent to the unit, and all power and control cables installed to place the REIL system in operation.

CONSTRUCTION METHODS

125-3.1 GENERAL. Add the following to this section:

The new REIL units shall be installed at the location shown in the plans, in accordance with the typical detail shown in the plans, as detailed in Advisory Circular 150/5340-30A and as recommended by the manufacturer of the REIL equipment. The REIL system shall be installed to permit its operation (power supply and control) from the high intensity runway edge lighting series circuit (2.8 amps to 6.6 amps).

The existing fixtures, bases, stakes, transformers, etc. of the existing edge lighting units and guidance signs that are to be removed shall be removed taking care not to damage their component parts. Concrete base or pad associated with the guidance sign shall be removed and disposed of off the airport property by the Contractor. The designated number of salvageable medium intensity light units that will be used by the airport as maintenance repair parts shall be transported by the Contractor to a location on the airport designated by the airport management and deposited there for storage. All other light fixture and sign components that are removed shall be disposed of by the Contractor off the airport property.

The existing REIL system to be removed consists of 2 flashing units with control cabinets mounted on steel bases with concrete backfill that contain the associated transformers and power equipment. Each unit including the steel base with concrete backfill shall be removed by the Contractor and disposed of off the airport property.

All holes resulting from the removal of the lighting units shall be filled with suitable earth backfill, tamped, shaped and reseeded with Kentucky 31 or Alta Fescue seed (1 pound of pure live seed per each 436 square feet). This restoration work shall be considered incidental to the removal of the lighting units.

METHOD OF MEASUREMENT

125-4.1 Revise this section to read:

The quantity of new lights to be paid for shall be the number of each type of light installed with concrete backfilled base or stake and isolation transformer as a completed unit, ready for operation and accepted by the Engineer.

The measurement of the new REIL system to be paid for shall be per pair for the REIL equipment installation one runway end, installed as a completed system; said completed system consisting of the master and slave REIL units including flasher head assemblies with concrete encased bases, Type L-867 bases with the required L-830 transformers and adapter units and including all power cables and control cables with associated trenching as required between the runway series circuit and the master REIL unit and the slave REIL unit; ready for operation and accepted by the Engineer.

No separate measurement will be made for the trenching and cable required to connect the transformers at the master REIL unit into the runway series circuit and no separate measurement will be made for the trenching and cable required to feed and control the slave REIL unit. These items shall be included in the bid price for REILS per pair.

The measurement of the removal of the existing REIL system units to be paid for shall be per pair for removal of the flashing units with control cabinets; including the steel bases and concrete backfill and all associated transformers and power equipment.

The quantity of new guidance signs to be paid for shall be the number of each type of sign installed, including concrete pad, steel base, secondary lead extension and isolation transformer, all assembled and installed as a completed unit, ready for operation and accepted by the Engineer.

The quantity of removed existing guidance signs and existing edge lights to be paid for shall be the number of guidance signs and types of edge lights (base or stake mounted) removed, including the base and/or stake, transformer, etc.

BASIS OF PAYMENT

125.5.1 Revise this section to read:

Payment will be at the contract_unit price for each type of completed new light and for each type of completed new guidance sign; all installed in place, operational and accepted by the Engineer.

Payment will be made at the contract unit price for each type of edge light (base or stake mounted) and for each guidance sign removed and disposed of as designated in these Special Provisions.

Payment will be made at the contract unit price per pair for the REIL equipment installation on one runway and as a completed system; installed in place, operational and accepted by the Engineer.

Payment will be made at the contract unit price for each guidance sign and each type of edge light (base or stake mounted) removed and disposed of as designated in these Special Provisions.

Payment will be made at the contract unit price per pair for the REIL equipment removal on one runway end; removed and disposed of as designated in these Special Provisions.

These prices shall be full compensation for furnishing all materials and for all preparation, assembly, and installation of these materials; and for all labor, equipment, tools, and incidentals necessary to complete the items.

Payment will be made under:

- | | |
|---------------|---|
| Item AR125410 | MITL, Stake Mounted -- per each |
| Item AR125415 | MITL, Base Mounted -- per each |
| Item AR125442 | Taxi Guidance Sign, 2 Character -- per each |
| Item AR125443 | Taxi Guidance Sign, 3 Character -- per each |
| Item AR125444 | Taxi Guidance Sign, 4 Character -- per each |
| Item AR125445 | Taxi Guidance Sign, 5 Character -- per each |
| Item AR125448 | Taxi Guidance Sign, 8 Character -- per each |
| Item AR125449 | Taxi Guidance Sign, 9 Character -- per each |
| Item AR125505 | MIRL, Stake Mounted -- per each |

Special Provisions
Galesburg Municipal Airport

III. Proj. No. GBG-3433
AIP Proj. No. 3-17-0047-B8

- Item AR125510 MIRL, Base Mounted -- per each
- Item AR125515 HIRL, Base Mounted -- per each
- Item AR125540 MI Threshold Light Stake Mtd --per each
- Item AR125550 HI Threshold Light Base Mtd -- per each
- Item AR125565 Splice Can -- per each
- Item AR125610 REILS -- per pair
- Item AR125901 Remove Stake Mounted Light -- per each
- Item AR125902 Remove Base Mounted Light -- per each
- Item AR125904 Remove Taxi Guidance Sign -- per each
- Item AR125907 Remove REILS -- per pair

ITEM AR150530 TRAFFIC MAINTENANCE

DESCRIPTION

150530-1.1 This item shall consist of performing all measures required for the maintenance of traffic during construction. This item shall include the placement of the closed runway markers required for closing the runways, the placement of barricades associated with the closing of any airfield pavement, disconnecting and reconnecting the edge lighting circuit of temporarily closed pavement, and providing flagmen equipped with radios furnished by the Contractor to maintain radio communication during operations on active pavements.

The closed runway markers shall be in accordance with the details shown in the construction plans. It will be the Contractor's responsibility to maintain the closed runway markers and barricades throughout the duration of the time that they are in use. Upon any sign that the markers become weather damaged in any way, the Contractor shall immediately repair the affected markings.

CONSTRUCTION METHODS

150530-2.1 The closed runway markers shall be placed in accordance with the detail shown in the plans in order to close the runway and accomplish construction work on the affected runway. If it is possible to open the affected runway to traffic during periods when work is not being performed, the Contractor shall take up the closed runway markers and store them outside the setback limits which are 200' each side of the runway centerline. Upon resuming work, the closed runway markers shall be placed to again close said affected runway.

The barricades shall be placed as directed by the Engineer.

Upon completion of the construction work for this project, the Contractor shall be responsible for the removal of all closed runway markers and barricades that were utilized.

BASIS OF PAYMENT

150530-3.1 Any cost of labor and materials that the Contractor anticipates to be necessary to provide flagmen equipped with radios; and anticipates to be necessary to place, maintain and remove the closed runway markers and barricades as required to close and open the runway or taxiway pavements during construction operations shall be paid for under this item.

Payment will be made under:

Item AR150530 Traffic Maintenance -- per lump sum

ITEM AR501605 – 5” PORTLAND CEMENT CONCRETE SIDEWALK

DESCRIPTION

501605-1.1 This item shall consist of constructing Portland Cement Concrete sidewalk, constructed in one course on a prepared subgrade in accordance with these special provisions and conforming to the lines, grades, dimensions and details shown in the construction plans.

This item shall include excavating and preparing the subgrade; furnishing and placement of Portland Cement Concrete and reinforcement bars; and construction of construction and expansion joints necessary to provide a PCC sidewalk complete and ready for use.

MATERIALS

501605-2.1 CONCRETE. Concrete shall meet the requirements of Item 610 of these Special Provisions for aggregates, cement and admixtures and shall be IDOT approved Class SI concrete, air entrained with crushed stone coarse aggregate. Partial replacement of cement with fly-ash or with Ground Granulated Blast-furnace (GGBF) slag will not be allowed.

501605-2.2 STEEL REINFORCEMENT. Reinforcement bars shall conform to the requirements of ASTM A615, Grade 60 deformed bars. Welded wire fabric shall conform to the requirements of AASHTO M55, ASTM A82 or ASTM A185.

501605-2.3 JOINT FILLER. Bituminous preformed joint filler shall conform to AASHTO M33 and/or M213.

CONSTRUCTION METHODS

501605-3.1 GENERAL. Concrete proportions requirements shall conform to Item 610 of the Supplemental Specifications.

Construction methods and procedures for equipment used in the work; for concrete placement, finishing and curing; and for joint construction shall conform to the applicable portions of Item 501 of the Standard Specifications for Construction of Airports.

501605-3.2 SURFACE FINISH. The surface of the concrete sidewalk shall be finished with a brush, drawn across the sidewalk at right angles to the edges of the walk, with adjacent strokes slightly overlapping, accomplished in a manner acceptable to the Project Engineer.

METHOD OF MEASUREMENT

501605-4.1 The quantity of PCC Sidewalk to be measured for payment shall be measured to the nearest square foot of the completed surface area of the concrete sidewalk. No separate measurement will be made for the subgrade preparation, reinforcement, installation, and joint construction; and the cost of said subgrade preparation, reinforcement and jointing shall be included in the cost of the PCC Sidewalk.

BASIS OF PAYMENT

501605-5.1 Payment will be made at the contract unit price bid per square yard for 5" PCC Sidewalk; which price and payment shall constitute full payment for all subgrade preparation, reinforcement, concrete, jointing; and for all materials, labor, equipment, tools, and incidentals necessary to complete the work covered by this Special Provision.

Payment will be made under:

ITEM AR501605 – 5" PCC Sidewalk – per square foot

ITEM 610 – STRUCTURAL PORTLAND CEMENT CONCRETE

DESCRIPTION

610-1.1 Add the following:

This item shall include all concrete used in the construction of electrical manholes; concrete bases for edge light fixtures, taxi guidance signs and REIL units; concrete building foundation and floor; and other miscellaneous concrete construction.

CONSTRUCTION METHODS

610-3.2 CONCRETE PROPORTIONS. Add the following to this section:

The Contractor shall submit the job mix design and a certification that the supplier is approved by IDOT Division of Highways to produce “Class SI” concrete prior to using concrete on the project.

BASIS OF PAYMENT

610-5.1 Delete this entire paragraph and add the following:

No direct payment will be made for structural portland cement concrete. The cost of furnishing and installing structural concrete shall be considered incidental to the contract unit price for the respective pay item utilizing the concrete. This price shall be full compensation for furnishing all materials and for all preparation, delivering and installation of these materials, and for all labor, equipment, tools and incidentals necessary to complete the item.

RECURRING SPECIAL PROVISIONS

The following RECURRING SPECIAL PROVISIONS indicated by an "X" are Applicable to this contract and are included by reference:

<u>Check</u>	<u>No.</u>	<u>Item No.</u>	<u>Page No.</u>
	1	AR101580 Refurbish 36" Beacon	155
	2	AR106000 Apron Lighting	160
	3	AR119000 Airport Obstruction Lighting (Not Included)	166
	4	AR127000 Airport Navaid Installation (Not Included)	167
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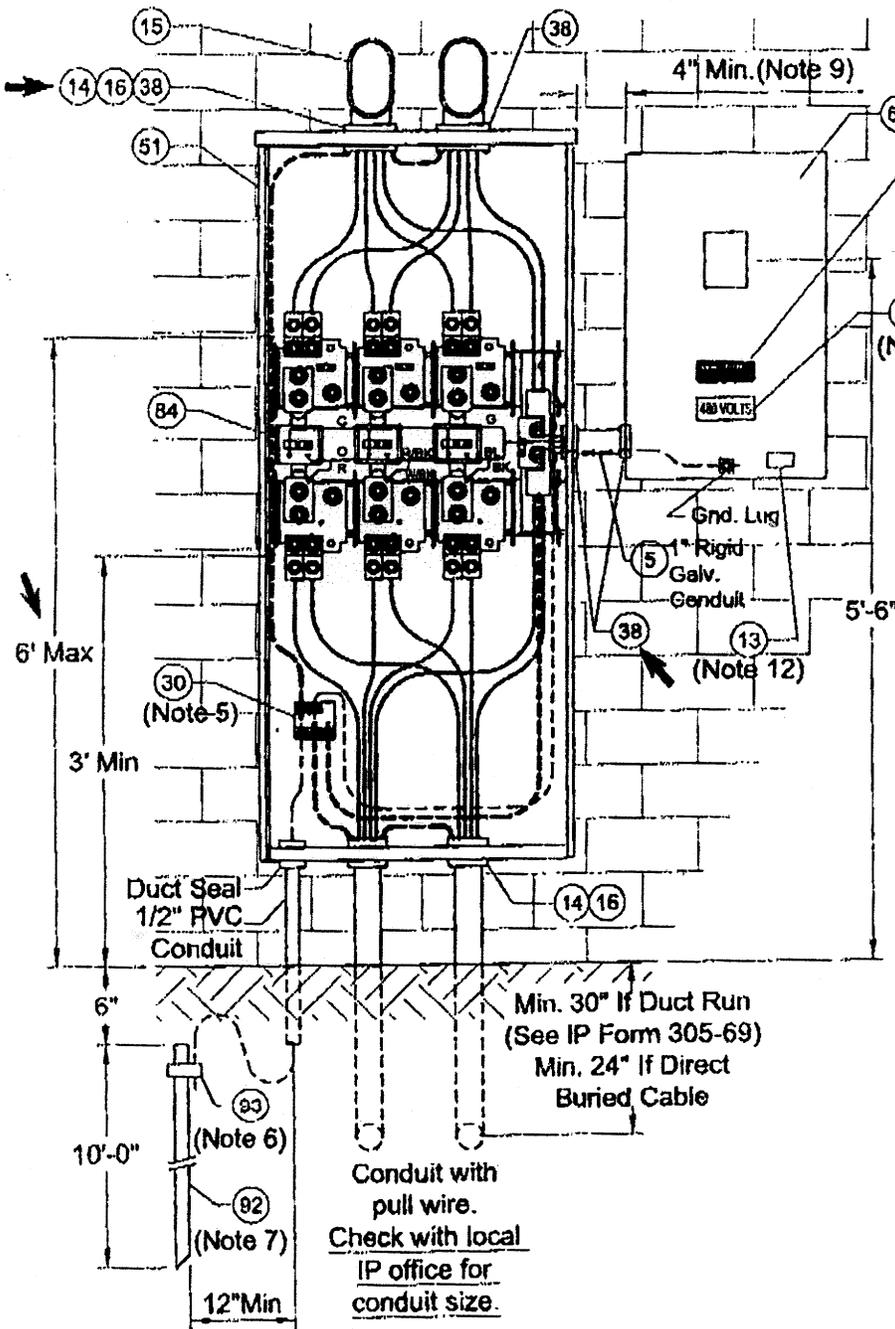
ILLINOIS POWER COMPANY ELECTRIC METER STANDARDS

21-4.501

RI 1031-103

120/208V, 277/480V AND 120/240V, 3 PHASE, 4 WIRE, 401-800 AMP,
UC SERVICE ON BUILDING

12-31-02



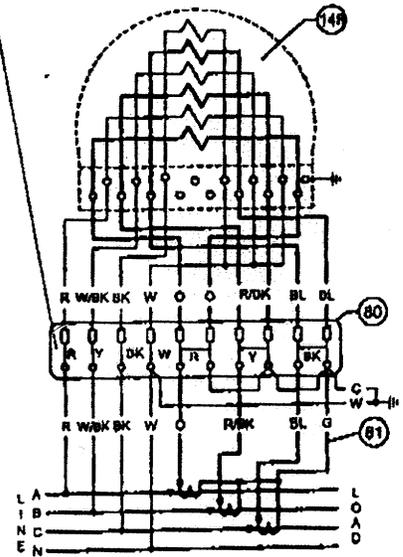
----- Equipment bonding jumpers (Note 4).
----- Grounding electrode conductor - No. 6 copper unless local code requires larger.

Strict observance of warning label on meter socket is mandatory.

WARNING
REMOVING METER DOES NOT DE-ENERGIZE SERVICE

WARNING
DO NOT INSTALL OR REMOVE METER WHILE ENERGIZED

Strict observance of warning label on outside cover of test switch is mandatory.



Wiring Diagram

Notes:

- 1) All conduit, wiring (except control cable), and enclosure shall be supplied and installed by customer. IP to supply and install meter, CT's, control cable, A bus, meter, and test switch.
- 2) The installation of all service entrance equipment, conductors and conduit shall conform to local codes and/or the latest National Electric Code (NEC).
- 3) IP line conductors to be connected to bottom; customer load conductors to top of CT's.
- 4) All equipment bonding jumpers shall be sized according to NEC 250.102(c). Equipment bonding jumper shall be permitted to be bare, covered, or insulated. Individually covered or insulated equipment jumper shall have a continuous outer finish that is either green or green with one or more yellow stripes.
- 5) Mount neutral lug terminal to cabinet in a location convenient to connect for IP and the customer.
- 6) NEC approved clamp. Leave uncovered until after inspection. Ground clamp must be 8" below surface of final grade.
- 7) Two ground rods recommended to assure requirement of NEC 250.58 is met. See IP Form 305-73.
- 8) The customer shall maintain a clear access pathway to and in front of meters and metering transformers. The clear space in front of IP equipment shall be 36" deep, 6" wider than the equipment (3" on both sides), and as high as the top of the equipment. This area shall be free of all obstructions.
- 9) Limit control cable to 30 ft.
- 10) Display 480 V warning sign on outside of all devices containing 277/480 V.
- 11) If 120/240 V, high leg shall be identified by an orange outer finish, tape or tag.
- 12) Display multiplier label of CTs and PTs on the metal surface inside of the enclosure next to the test switch.
- 13) The electric meter, fuse box, and switch should be installed at least 18" horizontally from gas meter set. When conditions allow, a spacing of 36" is preferable.
- 14) The main service disconnect means shall be installed at the nearest readily accessible location (or immediately behind the wall where it enters the building if possible).
- 15) Customer provided CT enclosure must meet 10-2.631 through 2.632 and meter enclosure must meet 10-2.627.

ILLINOIS POWER COMPANY ELECTRIC METER STANDARDS

21-4.502

12-31-02

MATERIAL LIST

LAC011303

ITEM NO.	DESCRIPTION
(5) ⁽¹⁾	RIGID CONDUIT, GALVANIZED STEEL.
(10) ⁽²⁾	480 VOLT WARNING SIGN. IP STOCK CODE: 36 5510, PROVIDED BY IP.
(13) ⁽²⁾	MULTIPLIER LABEL OF PTS AND CTS, LABEL NEEDS TO BE INSIDE CABINET ALWAYS.
(14) ⁽¹⁾	GALVANIZED CONDUIT LOCKNUT.
(15) ⁽¹⁾	LB CONDUIT FITTING, GALVANIZED STEEL OR ALUMINUM.
(16) ⁽¹⁾	GALVANIZED CONDUIT BUSHING, BONDING.
(30) ⁽¹⁾	ALUMINUM SET SCREW GROUND LUG CONNECTOR, HOMAC, ALCON, ESP, FARGO, ILSCO OR ANDERSON.
(38) ⁽¹⁾	RAIN TIGHT HUB.
(40) ⁽²⁾	WARNING LABEL, "REMOVE METER DOES NOT DE-ENERGIZE SERVICE." STOCK CODE: IP 36-5514
(41) ⁽²⁾	WARNING LABEL, "DO NOT INSTALL OR REMOVE METER WHILE ENERGIZED." STOCK CODE: IP AD 3771
(51) ⁽¹⁾	CT ENCLOSURE, 401-800 AMP, 600 VOLT, 4 WIRE, 24-1/2"W x 48"H x 11"D, PER IP FORM 305-49, PROVIDED BY CUSTOMER.
(62) ⁽¹⁾	METER ENCLOSURE, 15" W X 26" H X 13" D, PER IP FORM 305-76. PROVIDED BY CUSTOMER.
(80) ⁽²⁾	METER TEST SWITCH, 3 PAIR CURRENT AND 4 POTENTIAL, FRONT CONNECTED, SPECIAL COLOR CODE, WITH FIBERGLASS COVER, PROVIDED BY IP.
(81) ⁽²⁾	EIGHT CONDUCTOR CONTROL CABLE #13, 7 STRAND, P.E. INSULATION, P.V.C. JACKET AND STANDARD COLOR CODE. IP STOCK CODE: 12 3369, PROVIDED BY IP.
(84) ⁽²⁾	CURRENT TRANSFORMER, PROVIDED BY IP.
(92) ⁽¹⁾	COPPERWELD GROUND ROD 5/8" X 10'.
(93) ⁽¹⁾	GROUND ROD CLAMP, 5/8", NEC APPROVED.
(140) ⁽²⁾	ADAPTER, BASE, 4 WIRE, 3 PHASE, CT RATED, IP STOCK CODE 14 9139, PROVIDED BY IP.

NOTES:

- 1) CUSTOMER IS TO SUPPLY, INSTALL, AND MAINTAIN MATERIAL.
- 2) IP IS TO SUPPLY, INSTALL, AND MAINTAIN MATERIAL.

DIVISION 4 - MASONRY
Section 04200 - Masonry

1. GENERAL

1.01 DESCRIPTION

A. Related Items Specified Elsewhere

1. 05500 - Metal Fabrications
2. 08100 - Hollow Metal Doors and Frames

B. Work Includes

1. Furnishing, installing, all labor and materials to complete the masonry as shown on the drawings.

1.02 PRODUCT DELIVERY, STORAGE AND HANDLING

- A. Storage: Store materials under cover in dry place and in a manner to prevent damage or intrusion of foreign matter. During freezing weather protect all masonry units with tarpaulins or other suitable material. Store concrete masonry units under covers that will permit circulation of air and prevent excessive moisture absorption. Store cement, lime and air-setting mortars in watertight sheds with elevated floors. Protect reinforcement from the elements; immediately before placing, ensure that reinforcement is free from loose rust, ice or other foreign coatings that will destroy or reduce bond. Protect concrete masonry units against wetting prior to use. Store mortar materials in a dry, protected enclosure. Do not use mortar that has been partially set.

1.03 JOB CONDITIONS

- A. Protect partially completed masonry against weather, when work is not in progress by covering top of walls with strong, waterproof, non-staining membrane. Extend membrane at least 2 feet down both sides of walls and anchor securely in place.
- B. Protect masonry against freezing when the temperature of the surrounding air is 40 degrees Fahrenheit and falling. Heat materials and provide temporary protection of completed portions of masonry work. Comply with the requirements of the governing code and with the "Construction and Protection Recommendation for Cold Weather Masonry Construction" of the Technical Notes of Brick Institute of America (B.I.A.).

- C. Frozen Materials and Work: Do not use frozen materials or materials mixed or coated with ice or frost. For masonry which is specified to be wetted, comply with the BIA recommendations. Do not build on frozen work. Remove and replace masonry work damaged by frost or freezing.
- D. Do not lower the freezing point of mortar by use of admixtures or antifreeze agents.
- E. Do not use calcium chloride in mortar or grout.

2. PRODUCTS

2.01 MASONRY UNITS

- A. Manufacturer: Obtain masonry units from one manufacturer, of uniform texture and color for each kind required for each continuous area and visually related areas.
- B. Concrete Masonry Units (CMU)
 - 1. Size: Manufacturer's standard units with nominal face dimensions of 16 inches long x 8 inches high (15-5/8" x 7-5/8" actual), unless otherwise shown.
 - 2. Special Shapes: Provide where shown and where required for lintels, corners, jambs, sash, control joints, headers, bonding and other special conditions.
 - 3. Hollow Load-Bearing CMU: Provide units complying with ASTM C90, Grade N, at all "CMU" walls which are load bearing.
 - 4. Hollow Non-Load Bearing CMU: Provide units complying with ASTM C129 at all "CMU" walls, unless otherwise noted.
 - 5. Pigmented Split Face Structural Masonry Units: (All walls.)
 - a. Provide Kirchner, Inc.; Swansea Concrete Products or equal.
 - b. Provide manufacturers standard color and texture for buff (light brown)color. Final color shall be selected by the Engineer from a minimum of six submitted samples of varying shades.
 - c. Units shall comply with ASTM C90, Grade N, for Hollow Load-Bearing Masonry.

- d. Provide special shapes where shown or where required for corners, jambs, etc.
 6. Compressive strength: Not less than 1,000 pounds per square inch "average gross area" for average of five units; not less than 800 pounds per square inch for an individual unit. Strength for "average net area": 2,000 pounds per square inch (gross); 1,600 pounds per square inch (net).
 7. Water absorption (in pounds per cubic foot) for average of five units may range from 10 pounds per cubic foot concrete to 15 pounds per cubic foot for 105 pounds per cubic foot concrete based on oven-dry weight of concrete.
 8. Permissible variation in dimensions (height, width, and length) of units such as that a uniform joint can be easily maintained with a maximum variation of 1/16 inch.
 9. Average percentage of moisture in units at time of setting: Not to exceed 40 percent of their total absorption.
 10. Cure, Moisture Control and Shrinkage: Cure units in a moisture controlled atmosphere or in an autoclave at normal pressure and temperature to comply with ASTM Type 1.
- C. Precast concrete masonry items: Precast lintels, shall be formed as shown from 2500 psi concrete. Precast items shall have a smooth closed face finish free of voids and water bubbles, color to match blocks.

2.02 MORTAR MATERIALS

A. General

1. Mortar shall comply with ASTM C270. All water for mixing mortar: clean and potable.
2. Color of mortar: Buff Color (light brown) to match color of scored masonry block.
3. Mix all mortar in a mechanical mortar mixing machine for at least five (5) minutes after all materials are in the mixer. Use particular care in the supervision of the mixing of mortar.

B. Materials

1. Portland Cement: ASTM C150, Type I, except Type III, may be used to reduce protection requirements specified for laying masonry in cold weather. Provide natural color or white cement as required to produce the required mortar color.
2. Hydrated Lime: ASTM C207, Type S.
3. Sand: ASTM C144, except for joints less than 1/4", use aggregate graded with 100 percent passing the Number 16 sieve.
4. Lime Putty: A stiff mixture of lime and water. Keep putty moist until used. Slake putty made from quicklime and soak at least 24 hours before using. Putty made from Type S hydrated lime may be used immediately after mixing.

2.03 MASONRY ACCESSORIES

A. Continuous Wire Reinforcing and Ties for Masonry

1. Provide welded units prefabricated in straight lengths of not less than 10 feet with matching corner and tee units. Fabricate from cold-drawn steel wire complying with ASTM A83, with deformed continuous side rods and plain cross-rods, crimped for cavity wall construction and a unit width of 1-1/2 inch to 2 inches less than thickness of wall or partition.
2. Provide
 - a. Truss type fabricated with single pair of 9 gauge side rods and gauge continuous diagonal cross-rods spaced not more than 16 inches on center.
3. For use in interior partition walls, fabricate from mill galvanized wire.
4. For use in exterior walls, hot-dip galvanize after fabrication with 0.8 ounces zinc coating complying with ASTM A116, Class 3.

B. Individual Wire Ties for Masonry

1. Fabricate from 3/16 inch cold-drawn steel wire complying with ASTM A82, unless otherwise shown or specified, of the length required for proper embedment in wythes of masonry shown, and crimped if used in cavity wall construction.

2. For use with hollow masonry units laid with cells vertical, provide rectangular shaped ties.
3. For use with solid masonry units, provide ties with ends bent to 90 degree angles to form hooks not less than two inches long.
4. For use in interior partition walls, fabricate from steel wire with mill galvanized finish.
5. For use in exterior walls, fabricate from steel wire with 1.5 ounces hot-dip zinc coating complying with ASTM A153, Class B2, or fabricate from steel wire with not less than 7-mil copper coating complying with ASTM B 227, Grade 30HS.

C. Anchoring Devices for Masonry

1. Provide straps, bars, bolts and rods as required but fabricated from not less than 16 gauge sheet metal or 3/8 inch diameter rod stock, unless otherwise shown.
2. Flexible Anchors: Where masonry is shown or specified to be anchored to structural framework with flexible anchors, provide 2-piece anchors which will permit horizontal and vertical movement of masonry but will provide lateral restraint.
3. For devices which extend into exterior wythe, fabricate from steel with 1.5 ounces hot-dip galvanized coating complying with ASTM A153, Class B2 or from steel with not less than 7-mil copper coating complying with ASTM B227, Grade 30HS.

D. Concrete Inserts for Masonry

1. Unit Type: Provide cast iron or malleable iron inserts of the type and size shown of fabricated from not less than 12 gauge steel, hot-dipped galvanized after fabrication with 1.5 ounces zinc coating complying with ASTM A153, Class B2.
2. Dovetail Slots: Provide dovetail slots with filler strips, where shown. Fabricate from 16 gauge galvanized steel unless otherwise shown.

E. Flashings for Masonry

1. Provide concealed flashings, shown to be built into masonry.

2. Virgin polyvinyl chloride with plasticizers and other modifiers, formed into uniform flexible sheets not less than 20-mils thick, unless otherwise shown, and black in color.
 3. Elastomeric flashing, 20 mil thickness.
- F. Reinforcement: Deformed steel reinforcing bars complying with ASTM A615, Grade 60 of the sizes shown.

3. EXECUTION

3.01 GENERAL

- A. Thickness: Build walls and other masonry construction to the full thickness shown, except, build single-wythe walls to the actual thickness of the masonry units, using units of nominal thickness shown or specified.
- B. Build chases and recesses as shown and as may be required for the work of other contractors. Provide not less than 8 inches of masonry between chase or recess and jamb of openings and between adjacent chases and recesses.
- C. Cut masonry units with motor-driven saw designed to cut masonry with clean, sharp, unchipped edges. Cut units as required to provide pattern shown and to fit adjoining work neatly. Use full units without cutting wherever possible.
- D. Do not wet concrete masonry units.
- E. Pattern Bond: Lay exposed masonry in the bond pattern shown, or if not shown, lay in running bond with vertical joint in each course centered on units in courses above and below. Lay concealed masonry with all units in a wythe bonded by lapping not less than two inches. Bond and interlock each course of each wythe at corners, unless otherwise shown. Do not use units with less than four inches horizontal face dimensions at corners or jambs.
- F. Layout walls in advance for accurate spacing of surface bond patterns with uniform joint widths and to properly locate openings, movement-type joints, returns and offsets. Avoid the use of less than half size units at corners, jambs and wherever possible at other locations.
- G. Lay-up walls plumb and true, with courses level, accurately spaced and coordinated with other work.

- H. Stopping and Resuming Work: Rake back 1/2 masonry unit length in each course; do not tooth. Clean exposed surfaces of set masonry, wet units lightly (if specified to be wetted), and remove loose masonry units and mortar prior to laying fresh masonry.
- I. Built-In Work: As the work progresses, build-in all items shown or specified. Fill in solidly with masonry around build-in items.
 - 1. Fill space between hollow metal frames and masonry solidly with mortar.
 - 2. Where built-in items are to be embedded in cores of hollow masonry units, place a layer of metal lath in the joint below and road mortar or grout into core.
- J. Non-Bearing Interior Partition Walls: Build full height of story to underside of structure above unless otherwise shown. Do not wedge partitions tight against structural ceiling or beams. Provide a paper joint between top of masonry and the structural ceiling.
- K. Mortar Bedding and Jointing
 - 1. Mortar Mixes
 - a. ASTM C270 Proportion Specifications:
 - 1. Type M for exterior work and interior load-bearing walls.
 - 2. Type S or N for interior work non-load-bearing walls.
 - 2. Mix mortar ingredients for a minimum of 5 minutes in mechanical batch mixer. Use water clear and free of deleterious materials which would impair the work. Do not use mortar which has begun to set, or if more than 2-1/2 hours has elapsed since initial mixing. Retemper mortar during 2-1/2 hour period as required to restore workability.
 - 3. Lay block and other solid masonry units with completely filled bed and head joint; butter ends with sufficient mortar to fill head joints and shove into place. Do not slush head joints.
 - 4. Lay hollow concrete masonry units with mortar coverage on horizontal and vertical shells; bed webs in mortar in starting course on footings and foundation walls and in all courses of piers, columns and pilasters, and where adjacent to cells or cavities to be reinforced or to be filled with concrete or grout.

5. Joints: Maintain joint widths shown, except for minor variations required to maintain bond alignment. If not shown, lay walls with 3/8 inch joints. Cut joints flush for masonry walls which are to be concealed or to be covered by other materials, unless otherwise shown. Provide concave joints on exposed interior walls. Provide raked joints on exterior scored block.
- L. Remove masonry units disturbed after laying; clean and relay in fresh mortar. Do not pound corners at jambs to fit stretcher units which have been set in position. If adjustments are required, remove units, clean off mortar and reset in fresh mortar.
- M. Collar Joints: Fill joints between wythes solidly with mortar by parging either the back of the facing or the face of the backing and shove units solidly into parging.
- N. Where electric conduit, outlet and switch boxes occur, grind and cut units before building in services. Coordinate work with Electrical Contractor.
- O. Consult other Contractors: Make provisions that will permit the installation of their work in a manner to avoid cutting and patching. Build in work specified under other sections, as necessary and as the work progresses. Set steel lintels in beds of mortar.
- P. Coordinate installation of wall installation at exterior walls and as shown on drawings.

3.02 HORIZONTAL JOINT REINFORCING

- A. Provide continuous horizontal joint reinforcing as shown and specified. Fully embed longitudinal side rods in mortar for their entire length with a minimum cover of 5/8 inch on exterior side of walls and 1/2 inch at other locations. Lap reinforcement a minimum of 6 inches at ends of units. Do not bridge control and expansion joints with reinforcing except at wall openings. Provide continuity at corners and wall intersections by use of prefabricated "L" and "T" sections. Cut and bend units as directed by manufacturer for continuity at returns, offsets, curved corners, column fireproofing, pipe enclosures and other special conditions.
- B. Space continuously horizontal reinforcing
 1. Space reinforcing at 16 inches on center vertically, unless otherwise shown.

2. Reinforce masonry openings greater than 1 foot-0 inch wide, with horizontal joint reinforcing, placed in 2 horizontal joints approximately 8 inches apart, both immediately above the lintel and immediately below the sill. Extend reinforcing a minimum of 2 feet-0 inch beyond jambs of the opening bridging control joints where provided. Provide additional reinforcing at openings as required.

3.03 ANCHORING MASONRY WORK

- A. Provide anchoring devices of the type shown and as specified. If not shown or specified, provide standard type for facing and back-up involved.
- B. Anchor masonry to structural members where masonry abuts or faces such members. Comply with:
 1. Provide an open space not less than 1/2 inch in width between masonry and structural member, unless otherwise shown. Keep open space free of mortar or other rigid materials.
 2. Anchor masonry to structural members with metal ties embedded in masonry joints and attach to structure. Provide anchors with flexible tie sections, unless otherwise shown.
 3. Space anchors as shown, but not more than 24 inches on center vertically and 36 inches on center horizontally.

3.04 LINTELS

- A. Install loose lintels of steel and other materials where shown.
- B. Provide masonry lintels where shown and wherever openings of more than 1 foot - 0 inch are shown without structural steel or other supporting lintels. Provide precast or formed-in-place masonry lintels. Thoroughly cure precast lintels before handling and installation. Temporarily support formed-in-place lintels.
 1. Unless otherwise shown, provide one reinforcing bar for each 4 inches of wall thickness and of a size number not less than the number of feet of opening width.
 2. For hollow masonry unit walls, use specially formed "U" shaped lintel units with reinforcing bars placed as shown and filled with Type M mortar or concrete grout.
- C. Provide minimum bearing at each jamb, or 8 inches.

3.05 FLASHING OF MASONRY WORK

- A. Provide concealed flashings in masonry work as shown. Prepare masonry surfaces smooth and free from projections which might puncture flashing. Place through-wall flashing on bed of mortar and cover with mortar. Seal flashing penetrations with mastic before covering with mortar. Terminate flashing 1/2 inch from face of wall unless otherwise shown. Extend flashings beyond edge of lintels and sills at least 4 inches and turn up edge on sides to form pan to direct moisture to exterior. Provide weep holes in the head joints of the first course of masonry immediately above concealed flashings. Space 24 inches on center unless otherwise shown. Install flashings in accordance with manufacturer's instruction.
- B. Install reglets and nailers for flashing and other related work where shown to be built into masonry work.

3.06 CONTROL AND EXPANSION JOINTS

- A. Provide vertical expansion, control and isolation joints in masonry where shown. Build-in related masonry accessory items as the masonry work progresses. Rake out mortar in preparation for application of caulking and sealants. See Section 07900.
 - 1. Build flanges and metal expansion strips into masonry. Lap each joint 4 inches in direction of flow. Solder joints below grade and at junctures with horizontal expansion joints, in any.
 - 2. Build flanges of factory-fabricated expansion joint units into masonry.
 - 3. Build-in joint fillers specified in Section 07920.

3.07 REPAIR, POINTING AND CLEANING

- A. Remove and replace masonry units which are loose, chipped, broken, stained or otherwise damaged, or if units do not match adjoining units as intended. Provide new units to match adjoining units and install in fresh mortar or grout, pointed to eliminate evidence of replacement.
- B. Pointing: During the tooling of joints, enlarge all voids or holes, except weep holes and completely fill with mortar. Point-up all joints at corner, openings and adjacent work to provide a neat, uniform appearance, properly prepared for application of caulking or sealant compounds.
- C. Clean exposed CMU masonry by dry brushing at end of each day's work and after final pointing to remove mortar spots and droppings.

END 04200

DIVISION 6 - WOOD AND PLASTICS
Section 06100 - Rough Carpentry

1. GENERAL

1.01 DESCRIPTION

A. Related Items Specified Elsewhere

1. 07311 - Asphalt Shingles
2. 07600 - Flashing and Sheet Metal

B. Work Includes

1. Furnishing and installation of all lumber as shown.

1.02 QUALITY ASSURANCE

A. Lumber Standard - Comply with PS 20, except as otherwise indicated.

B. Plywood Standard - Comply with PS 1, except as otherwise indicated.

C. Factory-mark each piece of lumber and plywood with type, grade, mill and grading agency, except omit marking from surfaces to be exposed with transparent finish or without finish.

1.03 SUBMITTALS

A. Wood Treatment Data: Submit 6 copies of chemical treatment manufacturer's instructions for proper use of each type of treated material. Indicate by transmittal form that copy of each instruction has been distributed to installer.

B. Dip Treatment: For each type specified, include certification by treating plant stating chemical solutions used, submersion period and conformance with specified standards.

C. Pressure Treatment: For each type specified, include certification by treating plant stating chemicals and process used, net amount of salts retained and conformance with applicable standards.

D. Fire-Retardant Treatment: Include certification by treating plant that treatment material complies with governing ordinances and that treatment will not bleed through finished surfaces.

- E. For water-borne preservatives, include statement that moisture content of treated materials was reduced to a maximum of 15 percent prior to shipment to project site.

1.04 PRODUCT DELIVERY, STORAGE AND HANDLING

- A. Keep materials dry during delivery and storage. Protect against exposure to weather and contact with damp or wet surfaces. Stack lumber and plywood, and provide air circulation within stacks.

1.05 JOB CONDITIONS

- A. Coordination: Fit carpentry work to other work; scribe and cope as required for accurate fit. Correlate location of furring, nailers, blocking, grounds and similar supports to allow proper attachment to other work.
- B. Protect installed carpentry work from damage by work of other contractors.
- C. Shop fabricate carpentry work to the extent feasible and where shop fabrication will result in better workmanship than feasible for on-site fabrication.

1.06 WARRANTY

- A. All work shall be warranted for at least one year against opening of joints, warping, cracking, delamination, or showing other defects, and the Contractor shall make good at his own expense any defects which may occur during that period.

2. PRODUCTS

2.01 LUMBER

- A. Nominal sizes are indicated, except as shown by detail dimensions. Provide actual sizes as required by PS 20 for the moisture content specified for each use.
 - 1. Provide dressed lumber, S4S, unless otherwise shown or specified.
 - 2. Provide seasoned lumber with 19 percent maximum moisture content at time of dressing.
- B. Framing Lumber (2" thru 4" thick): For light framing (less than 6" wide), provide:
 - 1. Standard grade, any species. No. 2 Structure.

- C. Boards (less than 2" thick)
 - 1. Exposed Boards
 - a. Moisture content - 15 percent maximum "MC-15".
 - b. Where transparent or natural finish or no finish is indicated, provide Redwood, Select Heart Grade (RIS).
 - c. Where painted finish is indicated, provide Southern Pine, Number 2 Boards (SPIB), or Douglas Fir Construction Boards (WCLB or WWPA).
 - 2. Concealed Boards
 - a. 19 percent maximum moisture content (S-DRY).
 - b. Species and Grade:
 - 1. Redwood Construction Common (RIS)
 - 2. Southern Pine Number 2 Boards (SPIB)
 - 3. Any species graded Construction Boards (WCLB or WWPA).
- D. Plywood
 - 1. Exposed Plywood
 - a. Provide exterior type plywood for exterior use; interior type plywood with exterior glue for interior use.
 - b. Where transparent or natural or no finish is indicated, provide Exterior Type Plywood for exterior use and Interior Type with exterior glue for interior use, of the species indicated.
 - c. Where painted finish is indicated, provide Medium Density Overlay (MDO) for exterior use; and provide Interior Type plywood with Grade A exposed faces and Grade D concealed, for interior use.
 - 2. Concealed Plywood: Provide Interior Type plywood C-D Plugged Grade, unless otherwise specified.
 - a. For backing panels for electrical or telephone equipment, provide fire-retardant treated Standard grade plywood with exterior glue.

- E. Fasteners and Anchorages: Provide size and type as indicated and as recommended by applicable standards. Comply with applicable Federal Specifications for nails, staples, screws, bolts, nuts, washers and anchoring devices.

2.02. WOOD TREATMENT

- A. Preservative Treatment: Comply with applicable requirements of the American Wood Preservers Bureau (AWPB). Mark each treated item to comply with the AWPB Quality Mark for the specified requirements.
 - 1. Pressure-treat above-ground items with water-borne preservatives complying with AWPB LP-2. After treatment, kiln-dry to a maximum moisture content of 15 percent. Treat indicated items and wood cants, nailers, blocking, stripping, and similar members in connection with roofing, flashing, vapor barriers and waterproofing.
 - 2. Pressure-treat wood members in contact with ground with water-borne preservatives for ground contact use complying with AWPB LP-22.

2.03. SCAFFOLDING:

- A. Design, provide, erect, maintain, supervise and be responsible for all scaffolding required for the complete installation of all work under this contract.

3. EXECUTION

3.01. INSTALLATION

- A. Discard units of material with defects which might impair the quality of the work and units which are too small to fabricate the work with minimum joints or the optimum joint arrangement.
- B. Set carpentry work accurately to required levels and lines, with members plumb and true and accurately cut and fitted.
- C. Securely attach carpentry work by anchoring and fastening as shown and as required by recognized standards. Countersink nail heads on exposed carpentry work and fill holes. Use common wire nails, except as otherwise indicated. Use finishing nails for finish work. Select fasteners of size that will not penetrate members where opposite side will be exposed to view or will receive finish materials. Make tight connections between members. Install fasteners without splitting of wood, pre-drill as required.

- D. Examine the substrates and supporting structure and the conditions under which the carpentry work is to be installed and notify the Contractor in writing of conditions detrimental to the work. Do not proceed with the installation until unsatisfactory conditions have been corrected in manner acceptable to the installer.

3.02. WORKMANSHIP

- A. Perform all work in the highest grade and best workmanship. Use mechanics and artisans skilled in their respective trades.
- B. Perform all work as is usually required in connection with the plumbing, heating, electrical, or other contractors about the building. Furnish all required forms as required to properly execute and carry out the work.

3.03. WOOD GROUNDS, NAILERS, BLOCKING AND SLEEPERS

- A. Provide wherever shown and where required for screeding or attachment of other work. Form to shapes as shown. Cut as required for true line and level of work to be attached. Coordinate location with other work involved.
- B. Attach as required to support applied loading. Countersink bolts and nuts flush with surfaces, unless otherwise shown. Build into masonry during installation of masonry work. Where possible, anchor to formwork before concrete placement.
- C. Provide permanent grounds of dressed, preservative treated, key-bevelled lumber not less than 1-1/2" wide and of thickness required to bring face of ground to exact thickness of finish material involved. Remove temporary grounds when no longer required.

3.04. WOOD FRAMING, GENERAL

- A. Providing framing members of size and on spacings shown, and frame openings as shown, or if not shown, comply with the recommendations of the "Manual for House Framing: of the National Forest Products Association". Do not splice structural members between supports.
- B. Anchor and nail as shown. Comply with the "Recommended Nailing Schedule - Table I of the 'Manual for House Framing'" and other recommendations of the N.F.P.A.
- C. Firestop concealed spaces with wood blocking not less than 2 inches thick, if not blocked by other framing members. Provide blocking at each building story level and at ends of joist spans.

3.05. INSTALLATION OF PLYWOOD

- A. Comply with recommendations of the American Plywood Association (APA) for the installation of plywood.

3.06. CONTRACTOR'S SUPERVISION

- A. At all times while masonry work is underway have a man or men upon the work who will attend to the setting of all frames, wood blocks, centers, wood bucks, etc. Furnish all lumber in connection with this portion of the work.
- B. Lay out lines of all ceiling work, and furring and establish all area sizes to which all other contractors will work.

END OF 06100

DIVISION 6 - WOOD AND PLASTICS
Section 06170 - Wood Trusses

1. GENERAL

1.01 DESCRIPTION

A. Related Items Specified Elsewhere

1. 06100 - Rough Carpentry

B. Work Includes

1. Furnish and install all trusses as shown.

1.02 QUALITY ASSURANCE

A. "National Design Specification for Wood Construction", National Forest Products Association.

B. "Design Specification for Metal Plate Connected Wood Trusses", Truss Plate Institute.

1.03 SUBMITTALS

A. Fabricator shall submit six (6) sets of shop drawings and design calculations to the engineer prior to fabricating trusses. They shall bear the seal of a Registered Professional Engineer, and shall include recommended permanent bracing requirements.

1.04 PRODUCT DELIVERY, STORAGE AND HANDLING

A. Keep materials dry during delivery and storage. Protect against exposure to weather and contact with damp or wet surfaces.

1.05 WARRANTY

A. All work shall be warranted for at least one year against opening of joints, warping, cracking, delamination, or showing other defects, and the Contractor shall make good at his own expense any defects which may occur during that period.

2. PRODUCTS

2.01 TRUSSES

- A. Wood trusses shall be as manufactured by Truss Components, Inc., Kirkwood, MO.; Timber Engineering Co., Washington, D.C.; Alpine Engineered Products, Inc., Pompano Beach, Florida; or ALCO White, Inc., Jacksonville, IL, or equal.
- B. Trusses shall be designed to support the following minimum loadings: Top Chord Live Load = 30 p.s.f.; Top chord Dead Load = 5 p.s.f.; Bottom Chord Dead Load = 10 p.s.f.; Snow Load = 40 p.s.f.; Wind Load = 30 p.s.f. Slopes, dimensions, and spacings shall be as shown on drawing.

2.02 MATERIALS

- A. Structural members shall be NO. 1 KD Southern Pine, with a minimum $F_b = 1600$ psi.
- B. Connector Plates: All connector plates shall be a minimum thickness of 0.036" and shall be manufactured from steel meeting the requirements of ASTM A446 Grade A, and shall be hot dip galvanized according to ASTM A525. Coating designation G60.
- C. Quality Control: Lumber defects such as wane or knots occurring in the connector plate area must not affect more than ten percent of required plate area or number of effective teeth required for each truss member. Connector plates shall be applied to both faces of truss at each joint, and should provide firm even contact between the plate and the wood. All wood members shall be accurately cut and fabricated so that all members have good bearing and all completed truss units are uniform. See Truss Plate Institute QUALITY CONTROL MANUAL QCM-77 for tolerances and other special requirements.

3. EXECUTION

3.01 INSTALLATION

- A. Discard units of material with defects which might impair the quality of the work and units which are too small to fabricate the work with minimum joints or the optimum joint arrangement.
- B. Set truss work accurately to required levels and lines, with members plumb and true and accurately cut and fitted.

- C. Securely attach truss work by anchoring and fastening as shown and as required by recognized standards.

- D. Bracing: All trusses must be securely braced both during erection and after permanent installation in a building in accordance with BRACING WOOD TRUSSES: Commentary and Recommendations (BWT-76) as published by the Truss Plate Institute. Erection bracing shall hold trusses straight and plumb and in safe condition until decking and permanent truss bracing has been fastened forming a structurally sound roof framing system. All erection and permanent bracing shall be installed and all trusses permanently fastened before application of any loads. Permanent structural cross-bracing to ensure overall rigidity of the roof system shall be in accordance with the truss manufacturer's recommendations. See truss design shop drawings for any additional special bracing requirements. Materials used in bracing are to be furnished by the erection contractor.

END OF 06170

DIVISION 6 - WOOD & PLASTICS
Section 06220 - Millwork

1. GENERAL

1.01 DESCRIPTION

A. Related work specified elsewhere

1. 06100 - Rough Carpentry

B. Work includes general contractor to furnish and install all finished wood which are not specifically included in other sections of Specifications.

1.02 DRAWINGS, DIMENSIONS & SAMPLES

A. Follow Engineer's Drawings and details as shown. Submit shop drawings of all millwork items. Engineer's decision final as to profiles, moldings, and ornament. Take dimension at building for built-in work or where governed by work of other contractors.

B. Submit sample of veneer and solid stock proposed for use for each type of millwork item to Engineer.

2. PRODUCTS

2.01 MATERIALS

A. Soft wood, interior: For trim and finish work: Western Pine for frames, backing, blocking, etc., sound, stable, seasoned, kiln dried stock.

3. EXECUTION

3.01 FRAMES, TRIM

A. All frames, trim, paneling unless otherwise noted: jambs, casings, molding, fascias, stop, run to profiles indicated and sanded perfectly smooth at mill. Trim fitted on job with perfectly mitered corners and all nail heads set.

END OF 06220

DIVISION 7 - THERMAL AND MOISTURE PROTECTION
Section 07210 - Building Insulation

1. GENERAL

1.01 DESCRIPTION

A. Related Work Described Elsewhere

1. 04200 - Masonry

B. Work Includes

1. Furnishing, installation and all labor required materials, equipment and incidentals for the completion of the building installation.

1.02 QUALITY ASSURANCE

A. Thermal Conductivity

1. The thicknesses shown are for the thermal conductivity (k-value at 75 degrees Fahrenheit), specified for each material. Provide adjusted thicknesses as directed for the use of material having a different thermal conductivity.

B. Fire and Insurance Ratings

1. Comply with fire-resistance, flammability and insurance ratings indicated and comply with code interpretations by governing authorities.

1.03 SUBMITTALS

A. Manufacturer's Data, Thermal Insulation

1. For information only, submit 2 copies of manufacturer's specifications and installation instructions for each type of insulation required. Include data substantiating that the materials comply with specified requirements. Indicate by copy of transmittal form that installer has received copy of manufacturer's instructions.

1.04 PRODUCT HANDLING

A. Protection from Deterioration

1. Do not allow insulation materials to become wet or soiled or covered with ice or snow. Comply with manufacturer's recommendations for handling, storage and protection during installation.
 - a. Protect plastic insulation from exposure to sunlight.

B. Fire Hazard

1. Do not deliver plastic insulating materials to the project site ahead of the time of installation. Protect at all times against ignition. Complete the installation and concealment of plastic materials as rapidly as possible in each area of work.

1.05 JOB CONDITIONS

A. Examination of Substrate

1. The installer must examine the substrate and the conditions under which the insulation work is to be performed and notify the Contractor in writing of any unsatisfactory conditions. Do not proceed with the insulation work until unsatisfactory conditions have been corrected in a manner acceptable to the installer.

- B. Do not proceed with the installation of insulation until subsequent work which conceals the insulation is ready to be performed.

2. PRODUCT

2.01 MASONRY FILL INSULATION

A. Foamed Insulation

1. Thermal and acoustical amino-plast masonry foam insulation meeting requirements of ASTM E-84, ASTM E-119, with R value of 4.9/inch.

2.02 MISCELLANEOUS MATERIALS

A. Adhesive for Bonding Insulation

1. The type recommended by the insulation manufacturer and complying with fire-resistance requirements and insurance requirements.
- B. Mechanical Anchors
1. Type and size shown or if not shown, as recommended by the insulation manufacturer for the type of application shown and condition of substrate, and for compliance with insurance requirements.
- C. Mastic Sealer
1. Type recommended by insulation manufacturer for bonding edge joints between units and filling voids in the work.

3. EXECUTION

3.01 INSTALLATION

- A. Comply with manufacturer's instructions for the particular conditions of installation in each case. If printed instructions are not available or do not apply to the project conditions, consult the manufacturer's technical representative for specific recommendations before proceeding with the work.
- B. Extend insulation full thickness as shown over entire area to be insulated. Cut and fit tightly around obstructions, and fill voids with insulation. Remove projections which interfere with placement.
- C. Apply a single layer of insulation of the required thickness, unless otherwise shown or required to make up the total thickness.
- D. Set reflective foil-faced units accurately with air space in front of foil as shown. Provide not less than 0.75 inch wide air space wherever possible.
- E. Seal joints between closed-cell (non-breathing) insulation units by applying mastic or sealant, of the type recommended by the manufacturer, to the edges of each unit to form a tight seal as units are shoved into place. Fill voids in completed installation with mastic or sealant.

END 07210

DIVISION 7 - THERMAL & MOISTURE PROTECTION
SECTION 07411 - Preformed Metal Roof Panels

1. GENERAL

A WORK INCLUDES

1. Base Bid:

- a) Contractor provide preformed standing seam metal roofing and flashing systems as shown and specified.

B RELATED WORK

1. Specified Elsewhere:

- a) 06100 - Rough Carpentry.
- b) 07620 - Sheet Metal Flashing & Trim.
- c) 07920 - Sealants & Caulking

C QUALITY ASSURANCE

1. Installing Contractor's Qualifications:

- a) Shall be "Certified" or "Approved", and trained by the roofing manufacturer. The job foreman shall also be trained by the manufacturer in the installation of the specified system. Show proof of training at the pre-construction meeting, or at least 2 weeks before commencement of roofing work.

(1) Take field measurements, where possible, prior to fabrication of components.

(2) Use an adequate number of thoroughly trained and experienced workmen who are familiar with the specified requirements of this Section.

(3) Comply with the Illinois Roofing Industry Licensing Act.

2. Manufacturer's Qualifications:

- a) Maintains a "Certified" installer training program and a list of installing contractors.

- b) Has technically qualified personnel available to inspect the installation at a time when corrections can still be made if needed, and at completion.

3. Manufacturer's Responsibility:

- a) The manufacturer has primary responsibility for the system, following the minimum specified requirements.

- b) The manufacturer shall sell products only to the “Certified” or “Approved” installing contractor for this project.
4. Performance Requirements:
- a) Air Infiltration: maximum air infiltration rate of 0.009 cfm/ft² at a pressure differential of 6.24 psf when tested in accord with ASTM E1680-95.
 - b) Water Penetration: No uncontrollable water leakage at a pressure differential of 6.24 psf when tested in accord with ASTM E1646-95.
 - c) Wind Uplift: Comply with Underwriter's Laboratories, (UL) Test Method 580, Class 90 Rating.
 - d) Roofing system shall conform with BOCA

D REFERENCES

- 1. Cited standards and manufacturer's catalogs, current at the date of bidding documents, unless otherwise specified, are incorporated herein by reference and govern the work. In conflict between these standards or catalogs and the project specifications, request written clarification from the ENGINEER.

E SUBMITTALS

- 1. Submit to the ENGINEER at the pre-construction meeting, or on new construction, at least two weeks prior to commencement of roofing work:
 - a) The roofing contractor's name, address and telephone number, and the name of the job foreman for this project.
 - b) The manufacturer's written statement that the job foreman has been trained in the installation of the specified system, and the contractor is currently a “Certified” or “Approved” installer.
- 2. Shop Drawings:
 - a) Manufacturer is to supply shop drawings.
 - b) The manufacturer's shop drawings shall be submitted to the Engineer. A copy shall be used at the job site.
 - c) If the manufacturer has an agreement with the contractor allowing them to supply the shop drawings, the manufacturer shall review drawings and submit to the ENGINEER.
 - d) Submit the following:
 - (1) Panel profile with concealed clip.
 - (2) All flashing, closures, and trim.
 - (3) Valleys and ridges.

- (4) Curbs and other penetrations.
- (5) Gutters and downspouts.

3. Samples:

- a) Sample of size and shape to show panel finish, seam, and concealed clip.
- b) 8" x 10" piece of roof insulation with facing.

4. Product Data:

- a) Specifications for roof panels, attachment clips, and insulation.
- b) Installation instructions for all components.

F DELIVERY, STORAGE AND HANDLING Comply with the manufacturer's instructions to prevent components from being damaged, deformed, or stained.

G WARRANTY

1. The manufacturer will provide a total system, single source, Weather-Tight Warranty, without exceptions. Requirements include:

- a) All materials either furnished or approved by the roofing manufacturer.
- b) The use of manufacturer supplied shop drawings during construction.
- c) Two inspections by the manufacturer: 1) during construction, 2) prior to issuing their warranty.
- d) Installation by manufacturer trained and approved contractor and job foreman.

2. General Contractor: Two years in accord with the Standard Documents for Construction.

3. Manufacturer: The following warranties shall be submitted before Final Completion, and become effective on the date the materials were shipped from the factory.

- a) Provide a single source, total system, non pro-rated, 20 year, weather-tightness warranty for materials supplied or approved by the manufacturer, and for labor.

(1) The warranty shall cover leaks in roof panels, trim, flashings, and penetrations, resulting from workmanship, ordinary wear, and normal weather conditions.

(2) The warranty to be signed by the manufacturer and the Certified/Approved installing contractor, agreeing to repair/replace defective materials and workmanship during the warranty period.

(3) Liability shall be limited to the installed cost of the roofing system, as listed on the Contractor's Schedule of Values.

- b) The manufacturer shall provide a 20 year Finish Warranty on paint integrity and color retention. This includes: cracking, flaking, blistering, chalking in excess of number 8 rating of ASTM D659, or fade in excess of 5 units per ASTM D2244.
- c) Alternative Dispute Resolution: Should the Owner and the manufacturer fail to agree on a warranty claim, it shall be submitted for arbitration to a Registered Roof Consultant member of the Roof Consultants Institute, mutually selected by both parties, who shall act as an arbitrator.

2. PRODUCTS

MATERIALS

A ENGINEERURAL

1. A.E.P. Span, Dallas, TX. (*High-Seam, **Snap**) (*Cap Seam, **Snap**) (*Snap Seam,**Snap**) (*Structural Batten System, **Snap**).
2. A & S Building Systems, Caryville, TN. (*Craftsman Series, **Snap**).
3. AMS, Eufaula, AL. (*Seam Loc, **Snap**).
4. Atas Aluminum Corp, Allentown, PA. (*PC Snap-on Seam, **Snap**) (*PC Snap-on Batten, **Snap**).
5. Copper Sales, Inc, Minneapolis, MN. (*"Una-Clad- UC-1", **Snap**) (*UC-2, **Snap**) (*UC-3, **Machine**).
6. Follansbee Steel, Follansbee, WV. **Seams either hand formed or soldered.** (*Terne Metal) (*Virotin Coated Steel) (*Terne Coated Stainless) (*Viromet Coated Stainless).
7. MBCI (Metal Building Components), Houston, TX. (*Craftsman HB 12, **Snap**) (*Crafts-man HB 16.5, **Snap**) (Lok Seam 12, 16 or 18, **Snap**).
8. McElroy Metal, Inc., Clinton, IL. (*Medallion-Lok,**Snap**) (*Medallion 1, **Snap**) (*Medallion II, **Snap**).
9. Merchant & Evans, Burlington, NJ. (*#305, **Snap**) (#306, **Snap**).

- B FOR THE ENTIRE ROOFING SYSTEM, including sub-framing, clips, panels, fasteners, valley flashings, roof-to-wall flashings, eaves, rakes, ridges, curbs, skylights, and other components as specified, the contractor shall use materials either manufactured or approved by the roofing manufacturer.

C ROOFING PANELS

1. Preformed roofing panels to have the configuration shown on the drawings. Fabricate from 24 ga. Galvalume, ASTM 792, and Kynar 500 prefinished steel.
2. Panel width to be from 18 inches to 24 inches.
3. Panel end laps are not allowed.
4. Panels to be designed for attachment with concealed clip fasteners, spaced as required by the manufacturer to provide for both positive and negative design loads, while allowing for expansion and contraction of the entire roofing system resulting from variations in temperature. Exposed fasteners are permitted only to control expansion, and at panel end splices.
5. Factory installed sealant in panel side joints.
6. Exterior Finish: Only Kynar 500 containing 70% fluoropolymer *or* Hylar 5000 Polyvinylidene fluoride (PVFD) coatings are acceptable for painted roof panels. Interior Finish: Manufacturer's corrosion resistant paint. A "clay" color is to be used as an index of the color shade for the roof panels. Final color shall be selected by the Engineer from a minimum of 3 samples of varying shades offered by the manufacturer.

D ROOF INSULATION

1. Polyisocyanurate Insulation Board conforming to HH-I-1972, flame spread rating of 25 or less, as tested in accord with ASTM C 1289.
 - a) 1 inch layer of unfaced metal building fiberglass "filler" insulation installed on top of the board, ASTM C-553, Type 1, Class B. This reduces wind vibration and expansion noises in the roofing panels.

E OTHER MATERIALS

1. Exposed threaded fasteners shall be #300 stainless steel, stainless steel capped, or zinc capped with neoprene washers. Series 400 or self-drilling stainless steel fasteners are not acceptable.
2. Eave Closures & Gable Trim: Minimum 26 ga. Steel finished to match adjoining components. Panel end closures shall be weather-tight metal closures for batten and vertical leg panels.
3. Provide other shapes, tape, fasteners, and flashing as required or recommended by the manufacturer to complete a weather-tight system.
4. Sealants: As required or recommended by the manufacturer. For general purpose sealants see Section 07920.
5. Flexible EPDM Flashings and EPDM Pipe Flashings: Do not use on hot pipes. As recommended by the roofing manufacturer.

6. Touch-up Paint: Kynar 500 or Hylar 5000 to match panel and trim finish.
7. Felt Underlayment: 30# asphalt felt paper complying with ASTM D226.
8. Slip Sheet: Minimum 5 lb/100sq.ft, rosin sized.
9. High Temperature Ice & Water Dam Sheet:
 - a) GAF - StormGuard HT.
 - b) Tamko - TW Metal &Tile Underlayment.
 - c) W. R. Grace -Vycor Ultra.

F EXTERIOR GUTTERS & DOWNSPOUTS

1. 3"x4" steel downspout and 4" Ogee steel gutter coated same as roofing.
2. Manufacturer to be the same as the roofing

G SNOW GUARDS

1. "Snow Dam" by ThyCurb, Addison, IL. 800/666-2872. (*ENGINEER NOTE: A bar welded between two seam saddles, made from .080 aluminum, secured to the sides of trapezoidal seams with self-drilling screws.)
2. "S-5" by Petersen Aluminum, 800/323-1960. (*ENGINEER NOTE: Aluminum double bars between clamp-on seam saddles.)
3. SnoBar, 800/711-9724. (*ENGINEER NOTE: Aluminum, stainless steel double bars or single bar, between clamp-on seam saddles.)

H ROOF VENTS

1. Roofing manufacturers brand and type of ridge or other vents they will include under their warranty.

3. EXECUTION

A INSPECTION

1. Verify the substrate or structural system is complete, at proper elevation, and otherwise ready for roofing installation.
2. Verify the work of other contractors which penetrates the roof, or requires people and equipment to traverse the roof deck is complete.
3. Notify the Engineer in writing of unsatisfactory conditions that may adversely affect the performance or appearance of the roof. Do not proceed with installation until those conditions are corrected.

B INSTALLATION

1. Install high temperature ice & water dam sheet where shown on the drawings, and in accord with the manufacturer's recommendations.
2. Roof Insulation:
 - a) Install in accord with the roofing manufacturer's recommendations. Do not install more insulation than can be covered with panels by the end of the workday.
 - b) Insulation Boards:
 - (1) Butt boards tightly together, trim to fit so that gaps around penetrations do not exceed 1/4 inch. (*Stagger end joints at mid-points between adjacent joints) (*Align end joints).
 - (2) Install 1" fiberglass filler insulation on top of the insulation board.
3. Install roofing panels in accord with the manufacturer's instructions using concealed attachment clips.
 - a) Secure panels to prevent movement only at the location determined by the manufacturer.
 - b) Install panels properly aligned, constant slope, and within 1/4" in 20 feet.
4. Install all flashing, trim, ridge vents, gutters & downspouts per the roofing manufacturer's instructions.
5. Close field seams with the tools and seaming machine recommended by the manufacturer, operated in a manner to avoid damage to the panel finish.
6. Paint all field cut and other raw edges with Kynar 500 or Hylar 5000 to match panels and trim.

C FIELD QUALITY CONTROL

1. The roofing manufacturer shall provide on-site observation and instruction soon after the start of installation, during installation as they deem necessary, and at completion.
2. The ENGINEER will provide periodic observation during installation.
3. Accompany the manufacturer's technical representative during his completion inspection. Assist the inspector with equipment and workmen when necessary to provide access to the roof. Correct all items noted.

D CLEAN AND ADJUST

1. Carefully inspect all completed work and correct all defects.
2. Prevent movement or storage of materials or equipment on the completed roof.
3. Remove from the job site and legally dispose of all debris and metal scraps.
Remove all surplus materials, tools and equipment.
4. Power wash the entire roof to remove all steel shavings.

END 07411

DIVISION 7 - THERMAL AND MOISTURE PROTECTION
Section 07466 - Aluminum Trim

1. GENERAL

1.01. DESCRIPTION

A. Related Work Specified Elsewhere

1. 06100 - Rough Carpentry
2. 07600 - Flashing and Sheet Metal

B. Work Includes

1. Furnishing, installation, all labor and materials to complete the plastic aluminum work as shown on the drawings.

1.02. QUALITY ASSURANCE

A. Standards

1. Comply with applicable provisions for materials, grading and workmanship of the Aluminum Associations "Aluminum Formed Sheet Building Sheathing Design Guide".

B. Employ only tradesmen experienced in the fabrication and installation of aluminum siding.

C. Supply manufacturer's standard warranty.

1.03. SUBMITTALS

A. Manufacturer's Data: Aluminum Siding

1. Submit eight (8) copies of manufacturer data for all aluminum siding work. Indicate compliance with specified Standard and other specified requirements. Indicate by transmittal that a copy of installation instructions has been distributed to installer.

B. Samples: Aluminum Trim

1. Submit 3 sets of samples of each type, color and finish of aluminum trim and accessories required. Sample submittals will be reviewed for color, texture and pattern only. Rollex "clay" color to be used as an index of color shades to be used on this construction. Compliance with other requirements is the exclusive responsibility of the Contractor.

C. Maintenance Instructions

1. Submit 6 copies of manufacturer's written instructions for recommended maintenance practices.

2. PRODUCTS

2.01 MATERIALS

- A. Aluminum Soffit Panels: 0.024" 3004 aluminum alloy roll formed into panels with concealed interlocking seam and perforated for ventilation. Profile, color and texture shall be selected by the Engineer from manufacturers standard panels. Finish shall be baked enamel. Supply V-channel and bottom trim as required.
- B. Aluminum Facia Panels: 0.024" 3004 aluminum alloy roll formed into panels of appropriate width. Form to profile required. Color and texture shall be selected by the Engineer. Finish shall be baked enamel.

3. EXECUTION

3.01. INSTALLATION

- A. Installation shall be strict compliance with manufacturer's instructions.

END 07466

DIVISION 7 - THERMAL & MOISTURE PROTECTION
Section 07920 - Sealants & Caulking

1. GENERAL

1.01 WORK INCLUDES

A. Base Bid:

1. Contractor provide:

- a. Sealing and caulking of joints, including joint fillers and accessories, as shown on the drawings as herein specified.

1.02 RELATED WORK

A. Specified Elsewhere:

1. 07600 - Flashing & Sheet Metal
2. 08100 - Hollow Metal Work

1.03 QUALITY ASSURANCE

- A. Qualifications of Installers: Employ only experienced craftsmen, skilled in the installation of specified products.

1.04 REFERENCES

A. Manufacturer's Catalogs:

1. The acceptable manufacturer's catalogs, current at date of bidding documents, are incorporated by reference to the same force and effect as if repeated herein at length.

1.05 SUBMITTALS

A. Provide:

1. Product Data:

- a. Materials description
- b. Manufacturer's current printed installation instructions for each product.

2. Samples: Each compound and filler - number, size, color.

1.6 DELIVERY, STORAGE AND HANDLING

- A. Deliver all products in manufacturer's original containers, with seals unbroken, labels, product and manufacturer's names intact and legible.
- B. Store all products in a manner to prevent damage, in a secure place, out of way of construction operations. Provide protection until ready for use.
- C. Handle in accord with manufacturer's recommendations.

1.07 PROJECT/SITE CONDITIONS

- A. Environmental Conditions:
 - 1. Weather: Do not install products during adverse weather conditions.
 - 2. Temperature: Ensure that surface and ambient temperatures are within the range recommended by the manufacturer.

1.08 WARRANTY

- A. Contractor's Warranty: One year from date of final acceptance of the work.

2. PRODUCTS

2.01 ACCEPTABLE MANUFACTURERS

- A. Use the specified products of the following manufacturers, or equal:

CODE MANUFACTURER

- 1. DAP-DAP, Inc./Schering Plough Corp., Tipp City, OH.
- 2. DOW-DOW Chemical Corp., Midland, MI.
- 3. MAM-Mameco International, Cleveland, OH.
- 4. MEAD-W.R. Meadows, Inc., Elgin, IL.
- 5. PECO-Pecora Chemical Corp., Harleysville, PA.
- 6. PETE-Harry S. Peterson Co., Inc., Pontiac, MI.
- 7. PTI-Protective Treatments, Inc., Dayton, OH.
- 8. SIKA-Sika Chemical Corp., Lyndhurst, NJ
- 9. SON-Contech, Inc., Sonneborn Building Products Div., Minneapolis, MN.
- 10. TREM-Tremco Manufacturing Co., Cleveland, OH.

11. WDT-Woodmont Products, Inc., Huntington Valley, PA.
12. WIL-Williams Products, Inc., Troy, MI.

2.02 SEALANTS (Exterior & Interior)

A. Generic description and Use:

1. S-1: One component urethane, non-sag, gun grade elastomeric sealant or silicone rubber sealant. Use in all joints one-inch wide or less wherever movement may occur on interior or exterior, at contraction and expansion joints, masonry to masonry, concrete building construction joints, metal door and window frames to masonry, metal to metal and sheet metal to masonry.
2. S-2: Two component urethane, non-sag, gun grade elastomeric sealant. Use in all joints wherever movement may occur in locations indicated for S-1 sealant.
3. S-3: One component urethane, pour grade, self-leveling elastomeric sealant. Use in exterior and interior contraction and expansion joints in sidewalks, pavements, decks and swimming pools.

B. Acceptable products, or equal:

MFGR/TYPER	S-1	S-2	S-3
1. MAM	Vulkem 116	Vulkem 227	Vulkem 45
2. MEAD		Dualthane	
3. PECO	Dynatrol I	Dynatrol II	Urexpan NR201
4. PETE		Isoflex 881 (horiz.) Isoflex 2000 (vert.)	
5. SIKA	Sikaflex 15LM		Sikaflex 12SL
6. SON	Sonalastic NPI	Sonalastic NP II	Sonalastic SL1
7. TREM	Dymonic	Dymeric	THC-900

2.03 CAULKS (Interior Only)

A. Generic Description:

1. C-1: One part butyl gun grade.
2. C-2: One part acrylic gun grade.

B. Acceptable products, or equal:

MFGR/TYPER	C-1	C-2
1. DAP	Butylflex	
2. MEAD	Butylflex	Easaply acrylic latex caulk
3. PECO	Butyl BC 158	AC20 acrylic latex
4. PTI	Butyl sealant 707/757	737 Elastomeric sealant
5. SIKA		Sokaflex 420
6. SON	Butakauk	Sonalac acrylic latex caulk
7. TREM	Butyl sealant 400/500	Acrylic latex caulk
8. WDT	Chem-Calk 300	Chem-Calk 600

2.04 JOINT FILLERS

A. Generic Description and Use:

1. JF-1: Backer rod for elastomeric sealants. Extruded closed-cell polyethylene foam or polyethylene jacketed polyurethane foam, non-bleeding, non-staining, oversized 30 to 50 percent.
2. JF-2: Preformed Fiber Joint Filler, asphalt-impregnated.
3. JF-3: Preformed Cork Expansion Joint Filler.

B. Acceptable Products, or equal:

MFGR/TYPER	JF-1	JF-2	JF-3
1. DOW	Ethafoam		
2. MEAD	Backer road	Fiber Expansion Joint	Sealtight Cork Expansion Joint Filler
3. SON	Sonofoam Backer Rod		Sonoflex Cork Expansion Joint
4. WIL	Expand-O-Foam Cord		

2.05 JOINT CLEANER. Type recommended by the manufacturer of the sealing or caulking compound for the specific joint surface and condition.

2.06 BOND BREAKER. Polyethylene tape; pressure sensitive recommended by sealant manufacturer to suit application.

3. EXECUTION

3.01 REMOVE EXISTING CONSTRUCTION

- A. Completely remove all existing sealants, caulking, joint fillers and other accessory items.

3.02 INSPECTION

- A. Thoroughly inspect all existing construction and the conditions under which the work will be performed. Report to the Engineer in writing all conditions that would adversely affect installation of the work.
- B. Verify that all joint dimensions are in accord with manufacturer's recommendations.
- C. Start of work constitutes acceptance of construction and conditions.

3.03 PREPARATION

- A. Clean, prepare and size joints in accord with manufacturer's instructions. Remove all loose materials and other foreign matter which might impair adhesion of sealant or caulking.
- B. Prior to installing sealants in horizontal joints where asphalt impregnated expansion joint fillers or other non-polyethylene joint fillers have already been placed, duct tape or polyethylene tape may be placed directly over the existing filler.

3.04 INSTALLATION

- A. Comply with sealant manufacturer's printed instructions.
- B. Install sealant backer rod for liquid elastomeric sealants.
- C. Install bond breaker tape wherever recommended by manufacturer to ensure that elastomeric sealants will perform properly.
- D. Install sealants and caulking in uniform, continuous ribbons, without gaps or air pockets. Ensure complete "wetting" of the joints. Bond surfaces equally on opposite sides. Fill sealant rabbet to a slightly concave surface, slightly below adjoining surfaces.

- E. Install sealants to depth shown; when not shown, within the following limitations:
 - 1. For sidewalks, pavements and similar joints sealed with elastomeric sealants and subject to traffic and other abrasion and indentation exposures, fill joints to a depth equal to 75% of joint width, but not more than 3/4" deep or less than 3/8" deep.
 - 2. For normal moving joints sealed with elastomeric sealants but not subject to traffic, fill joints to a depth equal to 50% of joint width, but not more than 1/2" deep or less than 1/4" deep.
 - 3. For joints sealed with non-elastomeric sealants and caulking compounds, fill joints to a depth in the range of 75% to 125% of joint width.
- F. Spillage: Do not allow sealants or compounds to overflow or spill onto adjoining surfaces.
 - 1. Use masking tape or other precautionary devices to prevent staining of adjoining surfaces.

3.05 CURING

- A. Cure sealants and caulking compounds in compliance with manufacturer's instructions to obtain high early bond strength, internal cohesive strength and surface durability.

3.06 ADJUST/CLEAN

- A. Upon completion, carefully examine all sealant and caulking work. Remove all damaged and defective work and replace with new materials.
- B. Clean up. Remove all surplus products, containers and rubbish and dispose of off site.
- C. Remove all spilled or spattered materials from all surfaces. When adjacent surfaces or other work has been damaged or stained as a result of sealing and caulking work, repair all damage and remove all stains to the satisfaction of the Engineer.

- 3.07 PROTECTION. Protect installed work during remainder of construction period. Ensure that it will be without damage or deterioration (other than normal wear or weathering) at substantial completion.

END 07920

DIVISION 8 - DOORS AND WINDOWS
Section 08100 - Hollow Metal Doors and Frames

1. GENERAL

1.01. DESCRIPTION

A. Related Work Described Elsewhere

1. 04200 - Masonry
2. 08710 - Finish Hardware
3. 09900 - Painting.

B. Work Includes

1. Furnishing and installation of hollow metal doors and frames.

1.02. QUALITY ASSURANCE

A. Provide hollow metal work manufactured by a single firm specializing in the production of this type of work, unless otherwise acceptable to the Architect/Engineer.

B. Products

1. Provide hollow metal work as manufactured by one of the following, or equal:
 - a. Amweld Metal Doors & Frames
 - b. The Ceco Corporation
 - c. Fenestra
 - d. Kewanee Metal Doors & Frames
 - e. Mesker Industries, Inc.
 - f. Republic Steel Corporation
 - g. Steelcraft
 - h. Trussbilt

C. Fire-Related Assemblies

1. Wherever a fire-resistance classification (3 hours, 1-1/2 hour, etc., or "A", "B", etc.) is shown or scheduled for hollow metal work, provide fire-rated hollow metal doors and frames investigated and tested as a fire door assembly, complete with type of fire door hardware to be used. Identify each fire door and frame with UL labels, indicating applicable fire rating of both door and frame.
2. Construct and install assemblies to comply with NFPA Standard Number 80 and as herein specified.

1.03. SUBMITTALS

A. Manufacturer's Data, Hollow Metal Work

1. For information only, submit 8 copies of manufacturer's specifications for fabrication and shop painting, and installation instructions. Indicate by transmittal form that one copy of instructions has been distributed to the installer.

B. Shop Drawings, Hollow Metal Work

1. Submit 8 copies of shop drawings for the fabrication and erection of hollow metal work. Include details of each frame type, elevations of door design types, conditions at openings, details of construction, location and installation requirements of finish hardware and reinforcements and details of joints and connections. Provide fabrication, erection, and anchorage details at 3 inches to 1 foot - 0 inch scale dimensioned elevations at not less than 1 inch to 1 foot - 0 scale. Show anchorage and accessory items.
2. Provide a schedule of doors and frames using same reference numbers for details and openings as those on the contract drawings.

C. Label Construction, Hollow Metal Work

1. Submit manufacturer's certification for oversize fire-rated doors and frames that each assembly has been constructed with materials and methods equivalent to requirements for labeled construction.

1.04. PRODUCT DELIVERY, STORAGE AND HANDLING

- A. Deliver hollow metal work cartoned or crated to provide protection during transit and job storage.

- B. Inspect hollow metal work upon delivery for damage. Minor damages may be repaired provided the finish items are equal in all respects to new work and acceptable to the Architect/Engineer; otherwise, remove and replace damaged items as directed.
- C. Store hollow metal units on raised platforms in vertical positions with blocking between units to allow air circulation. Keep stored material covered and protected from damage.

1.05. JOB CONDITIONS

- A. Installer must examine the substrate and conditions under which hollow metal work is to be installed and notify the Contractor in writing of any conditions detrimental to the proper and timely completion of the work. Do not proceed with the work until unsatisfactory conditions have been corrected in a manner acceptable to the installer.

2. PRODUCTS

2.01. MATERIALS

- A. Hot-Rolled Steel Sheets and Strip
 - 1. Commercial quality carbon steel, pickled and oiled, complying with ASTM A569 and ASTM A568.
- B. Cold-Rolled Steel Sheets
 - 1. Commercial quality carbon steel, complying with ASTM A366 and ASTM A 568.
- C. Galvanized Steel Sheets: (Exterior Doors)
 - 1. Zinc-coated carbon steel sheets of commercial quality, complying with ASTM A526, with 1.25 ounces commercial zinc coating, mill phosphatized, complying with ASTM A525.
- D. Supports and Anchors
 - 1. Fabricate of not less than 16 gauge sheet steel. Galvanize after fabrication units to be built into exterior walls, complying with ASTM A153, Class B.

- E. Inserts, Bolts and Fasteners
 - 1. Manufacturer's standard units, except hot-dip galvanize items to be built into exterior walls, complying with ASTM A153, Class C or D as applicable.
- F. Shop-Applied Paint
 - 1. For steel surfaces, use rust-inhibitive enamel or paint, either air-drying or baking, suitable as a base for specified finish paints.
 - a. Paint galvanized surfaces with zinc dust zinc oxide primer.

2.02. FABRICATION, GENERAL

- A. Fabricate hollow metal units to be rigid, neat in appearance and free from defects, warp or buckle. Accurately form metal to required sizes and profiles. Wherever practicable, fit and assemble units in the manufacturer's plant. Clearly identify work, that cannot be permanently factory-assembled before shipment, to assure proper assembly at the project site. Weld exposed joints continuously, grind, dress and make smooth, flush and invisible. Metallic filler to conceal manufacturing defects is not acceptable.
- B. Exposed Fasteners
 - 1. Unless otherwise indicated, provide countersunk flat Phillips heads for exposed screws and bolts.
- C. Finish Hardware Preparation
 - 1. Prepare hollow metal units to receive mortised and concealed finish hardware, including cutouts, reinforcing, drilling and tapping in accordance with final Finish Hardware Schedule and templates provided by hardware supplier. Comply with applicable requirements of ANSI A115 "Specifications for Door and Frame Preparation".
 - 2. Reinforce hollow metal units to receive surface-applied hardware. Drilling and tapping for surface-applied finish hardware may be done at project site.
 - 3. Locate finish hardware as shown on final shop drawings or hardware schedule or if not shown, in accordance with "Recommended Locations for Builder's Hardware", published by the National Builder's Hardware Association.

D. Shop Painting

1. Clean, treat and paint surfaces of fabricated hollow metal units, including galvanized surfaces, whether concealed or exposed in the finished work.
2. Clean steel surfaces of mill scale, rust, oil, grease, dirt and other foreign materials before the application of the shop coat of paint.
3. Apply pre-treatment to cleaned metal surfaces using cold phosphate solution (SSPC-PT2), hot phosphate solution (SSPS-PT4) or basic zinc chromate-vinyl butyral solution (SSPC-PT3).
4. Apply shop coat of prime paint within time limits recommended by pre-treatment manufacturer. Apply a smooth coat of even consistency to provide a uniform dry film thickness of not less than 2.0 mils.

2.03. DOORS

- A. Provide flush design doors, 1-3/4 inch thick, seamless hollow construction, ANSI/SDI-100, Grade III Extra Heavy-duty, Model 4.
- B. Provide sound insulation filler of fiberboard or mineral-wool board, solidly packed full door height to fill the voids between inner core reinforcing members.
- C. Reinforced doors with rigid tubular frame where stiles and rails are less than 8 inches wide. Form tubular frame with 16 gauge steel, welded to outer sheets.
- D. Exterior Doors and Interior Doors
 1. Fabricate doors of 2 outer galvanized stretcher leveled steel sheets not less than 16 gauge. Construct doors with smooth, flush surfaces without visible joints or seams on exposed faces or stile edges, except around glazed or louvered panel inserts.
 2. Reinforce inside of doors with vertical galvanized sheet steel channel-shaped section or interlocking Z-shaped sections not less than 20 gauge. Space vertical reinforcing 6 inches on center and extend full door height. Spot-weld at 4 inches on center to both outer sheets.

- a. Continuous truss-form inner core of 28 gauge galvanized sheet steel reinforcing may be provided as inner reinforcement, in lieu of above. Spot-weld truss-form reinforcement 3 inches on center vertically and horizontally over entire surface of both sides.
3. Reinforce tops and bottoms of doors with 16 gauge horizontal steel channels welded continuously to the outer sheets. Close top and bottom edges to provide weather seal, as integral part of door construction or by addition of inverted steel channels. Astragals shall be 12 gauge welded integrally on edge of active doors.
- E. Finish Hardware Reinforcement
1. Reinforce doors for required finish hardware, as follows:
 - a. Hinges - steel plate 3/16 inch thick x 1-1/2 inch wide a 6 inches longer than hinge, secured by not less than 6 spot-welds.
 - b. Mortise locksets and dead bolts - 14 gauge steel sheet, secured with not less than 2 spot-welds.
 - c. Cylinder locks - 4 gauge steel sheet, secured with not less than 2 spot-welds.
 - d. Flush bolts - 14 gauge steel sheet, secured with not less than 2 spot-welds.
 - e. Surface-applied closers - 12 gauge steel sheet, secured with not less than 6 spot-welds.
 - f. Push plates and bars - 16 gauge steel sheet (except when through bolts are shown or specified) secured with not less than 2 spot-welds.
 - g. Surface panic devices - 14 gauge sheet steel (except when through bolts are shown or specified), secured with not less than 2 spot-welds.
 - h. Automatic door bottoms - reinforce for mortise-type units with 12 gauge steel and 16 gauge for surface applied units.

2.04. FRAMES

- A. Provide hollow metal frames for doors, transoms, side-lights, borrowed lights and other openings, of size and profile as indicated.
- B. Fabricate frames of full-welded unit construction, with corners mitered, reinforced, continuously welded full depth and width to frame, unless otherwise indicated.
 - 1. Knock-down type frames are not acceptable.
- C. Form frames of galvanized steel sheets.
 - 1. Gauge - not less than 14, for exterior openings up to 4 feet - 0 inch wide.
 - 2. For openings over 4 feet - 0 inch wide, increase thickness by at least two standard gauges.
 - 3. Where installed in masonry, leave vertical mullions in frames open at the top so they can be filled with grout.
- D. Finish Hardware Reinforcement
 - 1. Reinforce frames for required finish hardware, as follows:
 - a. Hinges - steel plate 3/16 inch thick x 1-1/2 inch wide x 6 inches longer than hinge, secured by not less than 6 spot-welds.
 - b. Strike plate clips - steel plate 3/16 inch thick x 1-1/2 inch wide x 3 inches long.
 - c. Surface-applied closers - 12 gauge steel sheet, secured with not less than 6 spot-welds.
 - d. Concealed closers - removable steel access plate, 12 gauge internal reinforcement of size and shape required and enclosing housing to keep closer pocket free of mortar or other materials.
- E. Wall Anchors
 - 1. Furnish wall anchors as required to secure frames to adjacent construction, formed of not less than 18 gauge galvanized steel.

a. Masonry Construction

1. Adjustable, flat or corrugated or perforated, T-shaped to suit frame size with leg not less than 3 inches wide by 10 inches long. Furnish at least 3 anchors per jamb up to 7 feet - 6 inches height, 4 anchors up to 8 feet - 0 inches jamb height, one additional anchor for each 24 inches or fraction thereof over 8 feet - 0 inches height.

b. In-place Concrete or Masonry

1. Anchor frame jambs with minimum 3/8 inch concealed bolts into expansion shields or inserts at 6 inches from top and bottom and 26 inches on center, unless otherwise shown. Reinforce frames at anchor locations. Apply removable stop to cover anchor bolts unless otherwise indicated.

F. Floor Anchors

1. Provide floor anchors for each jamb and mullion which extends to floor, formed of not less than 16 gauge galvanized steel sheet, as follows:

a. Monolithic Concrete Slabs

1. Clip type anchors with 2 holes to receive fasteners, welded to bottom of jambs and mullions.

G. Head Anchors

1. Provide 2 anchors at head of frames exceeding 42 inches wide for frames mounted in steel stud walls.

H. Additional Supports

1. Structural Reinforcing Members

- a. Provide structural reinforcing members as part of frame assembly, where indicated at mullions, transoms, or other locations which are to be built into frame.

2. Head Reinforcing
 - a. For frames over 4 feet - 0 inches wide provide 2 continuous steel angles not less than 2 inches x 2 inches x 12 gauge and width of opening, welded to back of frame at head, unless otherwise shown.
3. Spreader Bars
 - a. Provide 2 removable spreader bars across bottom of frames, tack welded to jambs and mullions.
- I. Sound Deadening
 1. Coat inside (concealed) faces of door frames in hollow wall construction with fibered asphalt emulsion similar to SSPC-Paint 12. Apply over shop primer approximately 1/8 inch thick and allow to dry before handling.
- J. Rubber Door Silencers
 1. Drill stops to receive 3 silencers on single-door frames and 4 silencers on double-door frames. Install plastic plugs to keep holes clear during construction.

2.05. STOPS AND MOLDINGS

- A. Provide stops and moldings around solid, glazed and louvered panels in hollow metal units and in frames to receive doors, where indicated.
- B. Form fixed stops and moldings integral with frame, unless otherwise acceptable to the Architect/Engineer. Provide fixed stops on inside of hollow metal units exposed to exterior and on corridor side on interior units, unless otherwise indicated.
- C. Provide removable stops and molds at other locations, formed of not less than 20 gauge steel sheets; exterior, galvanized and interior cold-rolled. Secure with machine screws spaced uniformly not more than 12 inches on center. Form corners with butted hairline joints.
- D. Coordinate width of rabbet between fixed and removable stops with type of glass or panel and type of installation indicated.

3. EXECUTION

3.01. INSTALLATION

- A. Install hollow metal units and accessories in accordance with the final shop drawings, manufacturer's data and as herein specified.
- B. Setting Masonry Anchorage Devices
 - 1. Provide masonry anchorage devices where required for securing hollow metal frames to in-place concrete or masonry construction.
 - 2. Set anchorage devices opposite each anchor location, in accordance with details on final shop drawings and anchorage device manufacturer's instructions. Leave drilled holes rough, not reamed, and free from dust and debris.
 - 3. Floor anchors may be set with power-actuated fasteners instead of masonry anchorage devices and machine screws, if so indicated on final shop drawings.
- C. Placing Frames
 - 1. Set frames accurately in position, plumbed, aligned and braced securely until permanent anchors are set. After wall construction is complete, remove temporary braces and spreaders leaving surfaces smooth and undamaged.
 - a. In masonry construction, building-in of anchors and grouting of frames is included in Division 4 of these specifications.
 - b. At in-place concrete or masonry construction, set frames and secure in place with machine screws and masonry anchorage devices.
 - c. Place fire-rated frames in accordance with NFPA Standard Number 80.
- D. Door Installation
 - 1. Fit hollow metal doors accurately in their respective frames, within the following clearances:
 - a. Jambs and head - 3/32 inch
 - b. Meeting edges, pair of doors - 1/8 inch

- c. Bottom - 3/8 inch, where no threshold or carpet.
 - d. Bottom, at threshold or carpet - 1/8 inch.
- 2. Place fire-rated doors with clearances as specified in NFPA Standard Number 80.
 - 3. Finish hardware installation is specified under Division 8 of these specifications.

3.02. ADJUST AND CLEAN

A. Final Adjustments

- 1. Check and readjust operating finish hardware items in hollow metal work just prior to final inspection. Leave work in complete and proper operating condition. Remove and replace defective work, including doors or frames which are warped, bowed or otherwise damaged.

B. Prime Coat Touch-Up

- 1. Immediately after erection, sand smooth any rusted or damaged areas of prime coat and apply touch-up of compatible air-drying primer.

END 08100

DIVISION 8 - DOORS AND WINDOWS
Section 08710 - Finish Hardware

1. GENERAL

1.01. DESCRIPTION

A. Related Work Specified Elsewhere

1. 08100 - Hollow Metal Doors

B. Work Includes

1. Furnishing and installation of Finish Hardware for all Hollow Metal Doors.

1.02. QUALITY ASSURANCE

A. Manufacturer

1. To the greatest extent possible, obtain each kind of hardware (latch and lock sets, hinges closers, etc.) from only one manufacturer, even though several may be specified as acceptable manufacturers.

B. Supplier

1. Subcontract the furnishing of hardware, as specified herein, only to a recognized builders' hardware supplier who has been furnishing hardware in the same area as the project to a period of not less than 2 years, and who has in his employment an experienced hardware consult who is available at all reasonable times during the course of the work, for project hardware consultation to the Owner, Architect/Engineer and Contractor.

C. Installer

1. Assign the installation of hardware to experienced tradesmen in compliance with trade union jurisdictions; either at the door and frame fabrication plant or at the project site, at Contractor's option except as otherwise indicated. It is assumed that the carpentry trade will install hardware items, except as otherwise required by the manufacturer, or otherwise directed by the Contractor, or otherwise specified.

D. Scheduled Designations

1. Except as otherwise indicated, the use of one manufacturer's numeric designation system in schedules does not imply that another manufacturer's products will not be acceptable, unless they are not equal in design, size, weight, finish, function, or other quality of significance. See Hardware Schedule in this Section for list of acceptable manufacturers.

E. Fire-Rated Openings

1. Provide hardware for fire-rated openings in compliance with A.I.A. (NBFU) Pamphlet Number 80 and NFPA Standard Number 80. This requirement takes precedence over other requirements for such hardware. Provide only hardware which has been tested and listed by UL for the types and sizes of doors required, and complies with the requirements of the door and door frame labels.
 - a. Where panic exit devices are required on fire-rated doors, provide supplementary marking on door UL label indicating "Fire Door to be Equipped with Fire Exit Hardware", and provide UL label on exit device indicating "Fire Exit Hardware".

- F. Where no hardware is specified herein for an opening requiring hardware (nor listed as not included under this Section of the specifications), or where the hardware specified herein will not function correctly, the hardware supplier shall notify the Contractor and Architect/Engineer of such conditions promptly, to enable changes or corrections to be made in time so that the construction of the project will not be delayed. Failure of the supplier of hardware to make such a notification in writing will be the supplier's responsibility for furnishing the hardware required or hardware that will function and operate to the satisfaction of the Architect/Engineer.

1.03. SUBMITTALS

A. Manufacturer's Data, Finish Hardware

1. For information only, submit 8 copies of manufacturer's data for each item of finish hardware. Include whatever information may be necessary to show compliance with requirements and include instructions for installation and for maintenance of operating parts and exposed finishes. Wherever needed, furnish templates to fabricators of other work which is to receive finish hardware. Indicate by transmittal that copy of applicable data has been distributed to the installer.

B. Hardware Schedule, Finish Hardware

1. Submit 6 copies of the final hardware schedule in the manner and format specified, complying with the actual construction progress schedule requirements (for each draft). Include a separate key schedule, showing clearly how the Owner's final instructions on keying of locks have been fulfilled. Hardware schedules are intended for coordination of the work. Review and acceptance by the Architect/Engineer or Owner does not relieve the Contractor of his exclusive responsibility to fulfill the requirements as shown and specified.

a. Final Hardware Schedule

1. Based on finish hardware requirements as indicated (including drawings, schedules and specifications), organize schedule into "hardware sets", indicating complete designation of every item required for each door or opening. Furnish initial draft of schedule at the earliest possible date, in order to facilitate the fabrication of other work (such as hollow metal frames) which may be critical in the project construction schedule. Furnish final draft or schedule after samples, manufacturer's data sheets, coordination with shop drawings for other work, delivery schedules and similar information has been completed and accepted.

1.04. PRODUCT HANDLING

- A. Provide secure lock-up for hardware delivered to the project, but not yet installed. Control the handling and installation of hardware items which are not immediately replaceable, so that the completion of the work will not be delayed by hardware losses, both before and after installation.

B. Delivery

1. All hardware shall be delivered to the job site in one shipment with door number on each package clearly marked and shall be checked on job site by supplier's personnel and contractor's representative. Hardware shall be stored in a clean, dry, secure room until ready for installation.

1.05. JOB CONDITIONS

A. Coordination

1. Coordinate hardware with other work. Tag each item or package separately, with identification related to the final hardware schedule, and include basic installation instructions in the package. Furnish hardware items of proper design for use of doors and frames of the thicknesses, profile, swing, security and similar requirements indicated, as necessary for proper installation and function, regardless of omissions or conflicts in the information in the contract documents. Deliver individually packaged hardware items at the times and to the locations (shop or field) for installation, as directed by the Contractor.

B. Templates

1. Furnish hardware templates to each fabricator of roods, frames and other work to be factory prepared for the installation of hardware. Upon request, check the shop drawings of such other work, to confirm that adequate provisions will be made for the proper installation of hardware.

- C. Temporary cylinders for locks shall be supplied during construction. Permanent cylinders for these locks shall be delivered to the Owner by the supplier to be installed by the Contractor at the Owner's direction.

2. PRODUCTS

2.01. MATERIALS

A. Hardware Materials and Fabrication

1. Produce hardware units of the basic metal indicated, using the manufacturer's standard metal alloy, composition, temper and hardness but in no case of less (commercially recognized) quality than specified for the applicable hardware units by FS FF-H-106, FS FF-H-111, FS FF-H-116 and FS FF-H-121. Do not substitute "optional" materials for those indicated except as otherwise permitted by other sections of these specifications.
2. From the base metal into the required shapes and sizes by the method indicated (cast, wrought, forged, rolled, pressed, etc.) or, if not indicated, by the manufacturer's standard production method for the class or quality of hardware units required. Do not substitute "optional" methods of forming for these indicated, except when

commercially recognized as a superior method, and except as otherwise permitted by other sections of these specifications.

3. Fasteners

a. Manufacturer hardware to conform to published templates, generally prepared for machine screw installation. Do not provide hardware which has been prepared for self-tapping sheet metal screws, except as specifically indicated.

4. Furnish screws for installation, with each hardware item. Provide Phillips flat-head screws except as otherwise indicated. Finish exposed (exposed under any condition) screws to match the hardware finish or, if exposed in surfaces of other work, to match the finish of such other work, to match the finish of such other work as closely as possible, except as otherwise indicated.

5. Provide concealed fasteners for hardware units which are exposed when the door is closed, except to the extent no standard-manufacturer units of the type specified are available with concealed fasteners. Do not use through bolts for installation where the bolt head or the nut on the opposite face is exposed under any condition, except where it is not possible to adequately reinforce the work and use machine screws or concealed fasteners of another standard type, to satisfactorily avoid the use of through bolts.

6. Provide fasteners which are compatible with both the unit fastened and the substrate and which will not cause corrosion or deterioration of hardware, base material or fastener.

7. Hand of Door

a. The drawings show the swing or hand of each door leaf (left, right, reverse bevel, etc.). Furnish each item of hardware for proper installation and operation of the door swing as shown.

B. Hardware Finishes

1. General

a. Match the finish of every hardware unit at each door or opening, to the greatest extent possible, and except as otherwise indicated. Reduce differences in color and textures as much as commercially possible where the base metal or metal forming process is different for individual units of hardware exposed at the same door or opening. In general,

match all items to the manufacturer's standard finish for the latch and lock set (or push-pull units if no latch-lock sets) for color and texture.

1. The Architect/Engineer will be the sole judge of whether hardware units match the accepted samples and match each other satisfactorily. Units will be judged when held 2 feet - 0 inch apart at 3 feet - 0 inch distance.
 - b. Provide finishes which match those established by NBHA or, if none established, match the Architect/Engineer's samples.
 - c. Provide quality of finish, including thickness of plating or coating (if any), composition, hardness and other qualities complying with manufacturer's standards, but in no case less than specified for the applicable units of hardware by FS FF-H-106, FS FF-H-111, FS FF-H-116 and FS FF-H-121.
 - d. Provide protective lacquer coating on all exposed hardware finishes of brass, bronze and aluminum, except as otherwise indicated. The suffix "NL" is used with standard finish designations to indicate "no lacquer".
2. Standard Finish Designations
 - a. The designations used in schedules and elsewhere to indicate hardware finishes are those listed in "Materials and Finishes Standard 1301" by BHMA, including coordination with the traditional U.S. finishes shown by certain manufacturers for their products.
 - b. Manufacturer's Standard
 1. Aluminum lacquer or bronze lacquer (as required for approximate match with other hardware finishes); for USP finish on iron and steel; primarily on door closer arms and cases.

c. Rust Resistant Finish

1. For iron and steel base metal, required for exterior work and in areas shown as "High Humidity" areas (and also when designated with suffix "-RR", provide 0.2 mil thick copper coating on base metal before applying brass, bronze, nickel or chromium plated finishes).

3. EXECUTION

3.01. HARDWARE MOUNTING HEIGHTS

- A. Mount hardware units at the following locations on each door or door opening, except as otherwise specifically indicated or required to comply with governing regulations, and except as may be otherwise directed by the Architect/Engineer.
1. Lowest Hinge - 10 inches above floor to bottom of unit.
 2. Highest Hinge - 5 inches below top of door to top of unit.
 3. Intermediate Hinges - equally spaced between lowest and highest hinge units.
 4. Lock and Latch Set - knobs centered 38 inches above floor.
 5. Dead Lock - cylinder and turn centered 60 inches above floor.
 6. Door Pull - pull centered 45 inches above floor; also centered 5 inches from edge of door, unless style dimension necessitates another location.
 7. Push Plate - coordinated with matching door pull, if any, otherwise centered 48 inches above floor; also centered 5 inches from door edge, unless style dimension necessitates another location.
 8. Horizontal Push/Pull Bar - bar or unit centered 42 inches above floor.
 9. Exit Device (Bar or Plate) - operating bar or place centered 42 inches above floor.
 10. Bolts, Head and Sill - operating device centered not more than 72 inches above floor.
 11. Special Pulls and Other Special Units - units mounted at height recommended by manufacturer.

3.02. INSTALLATION

- A. Install each hardware item in compliance with the manufacturer's instructions and recommendations. Wherever cutting and fitting is required to install hardware onto or into surfaces which are later to be painted or finished in another way, install each item completely and then remove and store in a secure place during the finish application. After completion of the finishes, reinstall each item. Do not install surface-mounted items until finishes have been completed on the substrate.

3.03. ADJUST AND CLEAN

- A. Adjust and check each operating item of hardware and each door, to ensure proper operation or function of very unit. Lubricate moving parts with type lubrication recommended b manufacturer (graphite-type is no other recommended). Replace units which cannot be adjusted and lubricated to operate freely and smoothly as intended for the application made.
- B. Final Adjustment
 - 1. Wherever hardware installation is made more than one month prior to acceptance or occupancy of a space or area, return to the work during the week prior to acceptance or occupancy, and make a final check and adjustment of all hardware items in such space or area. Clean and relubricate operating items as necessary to restore proper function and finish of hardware and doors. Adjust door control devices to compensate for final operation of heating and ventilating equipment.
- C. Instruct Owner's personnel in proper adjustments and maintenance of hardware and hardware finishes, during the final adjustment of hardware.
- D. Continued Maintenance Service
 - 1. Approximately six months after the acceptance of hardware in each area, the installer, accompanied by the representative of the latch and lock manufacturer, shall return to the project and readjust every item of hardware to restore proper function of doors and hardware. Consult with and instruct Owner's personnel in recommended additions to the maintenance procedures. Clean and lubricate operational items wherever required.

2. Replace hardware items which have deteriorated or failed due to faulty design, materials or installation of hardware units. Prepare a written report of current and predictable problems (of substantial nature) in the performance of the hardware.

3.04. KEYS AND KEYING

- A. All Cylinder locks shall be masterkeyed.

3.05. HARDWARE SCHEDULE

A. Manufacturers

1. Butt hinges shall be of size and type as listed in hardware groups. Butt hinges shall be manufactured by the following, or equal:

Hager and Sons	St. Louis, Missouri
Stanley Hardware	New Britain, Connecticut
McKinney Manufacturing Company	Reading, Pennsylvania

2. Door closers and holders - closer body to be close grained high strength cast iron. Door closers and holders shall be manufactured by the following, or equal:

Sargent	New Haven, Connecticut
LCN-Smoothee	Princeton, Illinois
Russwin	Berlin, Connecticut

3. Door stops shall be furnished for interior doors where such door or hardware will strike a wall, column, or any other obstruction. Hardware supplier shall verify job conditions relating to function of stops at door prior to installation and shall provide stop as required and acceptable to the Architect/Engineer. Stops and holders shall be manufactured by the following, or equal:

Ives	New Haven, Connecticut
Russwin	Berlin, Connecticut
Glynn-Johnson	Chicago, Illinois

4. Locks, latches and cylinders shall be of the design, function and grade as specified in hardware groups. Locks and latches shall be manufactured by the following, or equal:

Sargent 10 Line, LL	New Haven, Connecticut
Yale Augusta, Aur	Charlotte, N.C.

5. Thresholds and weatherstripping shall be of type as indicated in hardware groups and by the following, or equal:

Reese	Rosemont, Minnesota
Pemko Manufacturing Company	Emeryville, California
Zero Manufacturing Company	New York, New York
National Guard Products, Inc.	Memphis, Tennessee

6. Kickplates, pulls and push plates shall be as shown with hardware groups. Items shall be manufactured by the following, or equal:

Cipco Corporation	St. Louis, MO
Brookline Industries	Chicago, IL
Sargent	New Haven, Connecticut

7. The hardware required for each opening is indicated by a group number located in the schedule. Manufacturer's numbers have been taken from the following catalogues:

Hinges:
Butt Hinges - Hager
Door Closers - LCN
Door Stops - Ives
Locksets, Latchsets - Sargent
Door Holder - Sargent
Surface Bolts - Ives
Kickplates - Cipco
Weatherstripping, Astragals and Thresholds - Reese
Door Silencers - Ives (3 per jamb)
Exit devices - Sargent(Von Duprin, Russwin or, Corbin or equal)
All Finishes to be US26D Unless Otherwise Noted.

B. Groups

1. Group 1

Door Number 1 (4'-0 x 7'-0 x 1-3/4) Entry

Hinges:	BB1191 1-1/2 Pair Butts 4-1/2 x 4-1/2
Lockset:	10U05LL
Door Closer:	4114-H - CUSH

Supplemental Special Provisions
Galesburg Municipal Airport

III. Proj. No. GBG-3433
AIP Proj. No. 3-17-0047-B8

Kickplate:	5153 (10" x 34")
Door Silencers:	3446
Door Stop:	402-1/2
Weatherstripping:	
Head & Jamb:	770
Sill:	DB-178
Threshold:	S295A

END 08710

DIVISION 9 - FINISHES
Section 09900 - Painting

1. GENERAL

1.01. DESCRIPTION

A. Related Work Described Elsewhere

1. 05500 - Metal Fabrications
2. 06100 - Rough Carpentry
3. 08100 - Hollow Metal Doors and Frames

B. Work Includes

1. All labor, materials, equipment and incidentals to complete the painting herein specified.
2. Painting required for the work shall include:
 - a. All man doors on both sides; the interior and exterior of the door frames and all miscellaneous steel that form the openings.
 - b. All exterior concrete masonry. (Clear Sealant)
 - c. All miscellaneous interior and exterior steel surfaces.
 - d. Wood trim.
 - f. All other items shown to be painted on the drawings and/or specified herein.
3. The Architect/Engineer will select a standard color from the paint manufacturer's listed. See 2-02. of this Section.
4. "Paint" as used herein means all coating systems materials, including primers, emulsions, enamels, stains, sealers and fillers, and other applied materials whether used as prime, intermediate or finish coats.

C. Work Not Included

1. Shop Priming

- a. Unless otherwise specified, shop priming of ferrous metal items is included under the various sections for structural steel, miscellaneous metal, hollow metal work, and similar items. Also, for fabricated components such as architectural woodwork, wood casework and shop-fabricated or factory-built mechanical and electrical equipment and accessories.

2. Pre-Finished Items

- a. Unless otherwise indicated, do not include painting when factory-finishing or installer-finishing is specified for such items as (but not limited to) metal toilet enclosures, acoustic materials, finished mechanical and electrical equipment including light fixtures, switchgear and distribution cabinets, elevator entrance frames, doors and equipment.

3. Concealed Surfaces

- a. Unless otherwise indicated, painting is to required on surface such as walls or ceiling in concealed areas and inaccessible areas, foundation spaces, furred areas, utility tunnels, pipe spaces, and duct shafts.

4. Finished Metal Surfaces

- a. Metal surfaces on anodized aluminum, stainless steel, chromium plate, copper, bronze and similar finished materials will not require finish painting, except as otherwise indicated.

5. Operating Parts and Labels

- a. Do not paint any moving parts of operating units, mechanical and electrical parts, such as valve and damper operators, linkages, sensing devices, motor and fan shafts, unless otherwise indicated.
- b. Do not paint over any code-required labels, such as Underwriters' Laboratories and Factory Mutual, or any equipment identification, performance rating, name or nomenclature plates.

1.02. SUBMITTALS

A. Manufacturer's Data: Painting

1. For information only, submit 8 copies of manufacturer's specification, including paint label analysis and application instructions for each material specified. Indicate by transmittal that a copy of each manufacturer's instructions has been distributed to the paint applicator.

1.03. DELIVERY AND STORAGE

A. Deliver all materials to the job site in original, new and unopened packages and containers bearing manufacturer's name and label.

B. Provide labels on each container with the following information:

1. Name or title of material.
2. Manufacturer's stock number.
3. Manufacturer's name.
4. Contents by volume, for major pigment and vehicle constituents.
5. Thinning instructions.
6. Application instructions.

C. No materials other than types specified or approved may be delivered to the project site. All unapproved materials shall be removed from project site immediately. Paint shall be well ground, shall not settle readily, cake, or thicken in container; shall be broken up readily with a paddle to a smooth consistency; and shall have easy brushing properties.

D. Storage of Materials

1. Store all paint material and equipment in an assigned area. Protect floor and wall surfaces against damage. Take necessary precaution to keep fire hazard to a minimum. Leave surfaces of storage space clean and in condition required for equivalent spaces in the project.

1.04. JOB CONDITIONS

- A. Do not apply water-base when the temperature of surfaces to be painted and the surrounding air temperatures are below 50 degrees Fahrenheit, unless otherwise permitted by the paint manufacturer's printed instructions.
- B. Do not apply solvent-thinned paints when the temperature of surfaces to be painted and the surrounding air temperatures are below 45 degrees Fahrenheit, unless otherwise permitted by the paint manufacturer's printed instructions.
- C. Do not apply paint in snow, rain, fog or mist; or when the relative humidity exceeds 85 percent or to damp or wet surfaces, unless otherwise permitted by the paint manufacturer's printed instructions. Painting may be continued during inclement weather only if the areas and surfaces to be painted are enclosed and heated within the temperature limits specified by the paint manufacturer during application and drying periods.

2. PRODUCTS

2.01. COLORS AND FINISHES

- A. Surface treatments and finishes are shown on the drawings and indicated in the schedules of the contract documents.
- B. Proprietary names used to designate colors or materials are not intended to imply that products of the manufacturers are required to the exclusion of equivalent products of other manufacturers.
- C. Paint Coordination
 - 1. Provide finish coats which are compatible with prime paints used. Review other sections of these specifications in which prime paints are to be provided to ensure compatibility of total coatings system for various substrates. Upon request from other trades, furnish information on characteristics of specified finish materials, to ensure compatible prime coats are used. Provide barrier coats over incompatible primers or remove and reprime as required. Notify the Architect/Engineer in writing of any anticipated problems using specified coating systems with substrates primed by others.

2.02. MATERIAL QUALITY

- A. Provide the best quality grade of the various types of coatings, linseed oil, shellac, turpentine, thinner, cleaner, etc., as regularly manufactured by approved paint materials manufacturers. Materials not displaying the manufacturer's identification as a standard, best-grade product will not be acceptable.
- B. Provide under coat paint produced by the same manufacturer as the finish coats. Use only thinner approved by the paint manufacturer, and use only within recommended limits.
- C. Provide paint produced by one of the following manufacturers, or equal:
 - 1. Pratt and Lambert, Incorporated.
 - 2. Glidden Paint Company.
 - 3. Benjamin Moore and Company.
 - 4. Pittsburgh Paints.
 - 5. Sonneborn-DeSoto.
 - 6. Sherwin Williams.
 - 7. Porter Paints.
 - 8. Tnemec.
 - 9. MAB

2.03. MATERIALS

- A. Cleaner for Bare Metal
 - 1. Mild solution of phosphoric acid containing degreasing compound.
- B. Oils
 - 1. Raw Linseed Oil shall conform to ASTM D 234. Boiled Linseed Oil shall conform to ASTM D 260.
- C. Colors for Tinting
 - 1. Shall be recommended by manufacturer of paint or finish.

- D. Putty Compound
 - 1. Putty shall conform to ASTM D 317 for Class B white lead putty.
- E. Shellac
 - 1. Pure white gum cut in pure denatured alcohol.
- F. Thinners
 - 1. Turpentine - pure gum spirits of turpentine, conforming to ASTM D 13-51. Mineral spirits conforming ASTM D 236-61.

2.04. SCHEDULE OF PAINTING

- A. Based on materials as manufactured by Benjamin Moore, except as noted specifically otherwise. Equivalent products of another manufacturer may be substituted provided that to the extent possible all the paint be manufactured by one manufacturer and provided that contractor submit a duplicate list of all substitutions in time for the Engineer's approval prior to ordering the paint.
- B. Misc. Exterior Metals
 - 1. If not shop primed see 2.04.C.2. For touch up, Retardo rust inhibitive primer, or equal and two coats Decorative Trim Colors.
- C. Galvanized Metal
 - 1. Wash with Mineral Spirits to remove oily residues. Dry with clean cloth. Etch with solution of 1/2 pound of copper sulphate per gallon of water. Rinse with clear water and allow to dry. One coat Ironclad Galvanized Metal Primer Rust Inhibitive Paint. Two coats house paint.
- D. Interior Woodwork Paint Finish
 - 1. One coat Moore's Alkyd Enamel Underbody, or equal interior trim primer. Two coats Dulamel eggshell enamel, or equal.
- E. Interior Ferrous Metals
 - 1. One coat epoxy primer. One coat epoxy, and one coat polyurethane.

F. Interior Concrete Masonry Units

1. One coat Fill Coat block filler to fill voids, or equal. Two coats epoxy.

a. Primer:

- | | |
|--------------|--|
| (1) Glidden: | No. 5317 Ultra Hide Block Filler. |
| (2) PPG: | 16-90 High Performance Acrylic Block Filler. |
| (3) P & L: | Primafil 200 |
| (4) S-W: | Heavy Duty Block Filler. |
| (5) MAB: | 2000 Block Filler. |
| (6) or equal | |

b. First and Second Coats:

- | | |
|--------------|---|
| (1) Glidden: | No. 5240 Series Epoxy Chemical Resistant. |
| (2) PPG: | 97-1 Series Aquapon Polyamide-Epoxy. |
| (3) P & L: | Palguard. |
| (4) S-W: | Tile Clad II. |
| (5) MAB: | Py-Tile 520 Line. |
| (6) or equal | |

G. Interior Concrete Floors

1. One coat surface hardener/water repellent.

H. Exterior Concrete Masonry Units

1. Two coats of Glidden "Ultra-Klean" 20532, Sonneborn White Roc, Tamms-Kemstop, or equal.

3. EXECUTION

3.01. INSPECTION

- A. Applicator must examine the areas and conditions under which painting work is to be applied. Notify the Contractor and Architect/Engineer in writing of conditions detrimental to the proper and timely completion of the work. Do not proceed with the work until unsatisfactory conditions have been corrected in a manner acceptable to the applicator.
- B. Starting of painting work will be construed as the applicator's acceptance of the surfaces and conditions within any particular area.

- C. Do not paint over dirt, rust, scale, grease, moisture, scuffed surfaces, or conditions otherwise detrimental to the formation of a durable paint film.

3.02. SURFACE PREPARATION

A. General

1. Perform preparation and cleaning procedures in strict accordance with the paint manufacturer's instructions and as herein specified, for each particular substrate condition.
2. Remove all hardware, hardware accessories, machined surfaces, plates, lighting fixtures and similar items in place and not to be finish-painted, or provide surface-applied protection prior to surface preparation and painting operations. Remove, if necessary, for the complete painting of the items and adjacent surfaces. Following completion of painting of each space or area, reinstall the removed items by workmen skilled in the trades involved.
3. Clean surfaces to be painted before applying paint or surface treatments. Remove oil and grease prior to mechanical cleaning. Program the cleaning and painting so that contaminants from the cleaning process will not fall onto wet, newly-painted surfaces.

B. Cementitious Materials

1. Prepare cementitious surfaces of concrete, concrete block to be painted by removing all efflorescence, chalk, dust, dirt, grease, oils and by roughening as required to remove glaze.
2. Determine the alkalinity and moisture content of the surfaces to be painted by performing appropriate tests. If the surfaces are found to be sufficiently alkaline to cause blistering and burning of the finish paint, correct this condition before application of paint. Do not paint over surfaces where the moisture content exceeds that permitted in the manufacturer's printed directions.

C. Wood

1. Clean wood surfaces to be painted of all dirt, oil, or other foreign substances with scrapers, mineral spirits, and sandpaper, as required. Sandpaper smooth those surfaces exposed to view, and

dust off. Scrape and clean small, dry, seasoned knots and apply a thin coat of white shellac or other approved sealer, before application of the priming coat. After priming fill holes and imperfections in finish surfaces with putty or plastic wood filler. Sand paper smooth when dried.

2. Prime, stain or seal wood required to be job-painted immediately upon delivery to job.

D. Ferrous Metals

1. Clean ferrous surfaces, which are not galvanized or shop-coated, of oil, grease, dirt, loose mill scale and other foreign substances by solvent or mechanical cleaning.

- E. Touch-up shop-applied prime coats wherever damaged or bare, where required by other sections of these specifications. Clean and touch-up with the same type shop primer.

3.03. MATERIALS PREPARATION

- A. Mix and prepare materials in accordance with manufacturer's directions.
- B. Store materials not in actual use in tightly covered containers. Maintain containers used in storage mixing and application of paint in a clean condition free of foreign materials and residue.
- C. Stir materials before application to produce a mixture of uniform density, and stir as required during the application of the materials. Do not stir surface film into the material. Remove the film and if necessary, strain the material before using.

3.04. APPLICATION

A. General

1. Apply paint in accordance with the manufacturer's direction. Use applicators and techniques best suited for the type of material being applied.
2. Apply additional coats when undercoats, stains, or other conditions show through the final coat of paint, until the paint is of uniform finish, color and appearance.

3. Paint surface behind movable equipment and furniture the same as similar exposed surfaces. Paint surfaces behind permanently fixed equipment or furniture with prime coat only.
4. Paint interior surfaces of ducts, where visible through registers of grilles, with a flat, non-specular black paint.
5. Finish exterior doors on tops, bottoms and side edges the same as the exterior faces, unless otherwise indicated.
6. Sand lightly between each succeeding enamel or varnish coat.
7. Omit the first coat (primer) on metal surfaces which have been shop-primed and touch-up painted, unless otherwise specified.
8. Minimum drying time shall comply with that recommended by paint manufacturer. Each coat shall be thoroughly dry before application of succeeding coats.
9. Sand between coats of interior woodwork and ferrous metal with Number 00 sandpaper.
10. Make edges of paint adjoining other materials or colors sharp and clean, without overlapping.
11. Apply primer on all work before glazing.

B. Painting Work

1. Back prime all interior trim, exercising due care to prevent runs on face of trim.
2. Touch up all scarred and abraded places on shop primed work after cleaning and smoothing down to avoid shoulders.
3. Touchup primer on structural steel before applying field coat of paint.
4. Where colors are different and where door frames are painted to wall colors, change colors at inside corner of door rebate.

C. Painting of Mechanical and Electrical Items

1. Paint the following items if located in a room or if exposed to the weather.
 - a. Apparatus, Equipment and Equipment Supports

1. Do not paint apparatus and equipment having factory applied baked enamel finish. However, touch up any damaged spots to match.
 2. Unpainted, bare apparatus and equipment and equipment supports - one coat or rust inhibiting primer and one coat semi-gloss enamel.
 3. Factory primed material: One coat semi-gloss enamel.
- b. Ductwork, Grilles, Registers and Similar Items in Finished Room
1. Uninsulated ductwork and equipment castings-one coat galvanized iron primer & one coat semi-gloss enamel.
 2. Insulated ductwork with canvas covering - one brush coat Benjamin Foster "Lagtone" or Glidden "Insulblaze", or equal. Paint hangers as specified above.
 3. Do not paint insulated ductwork with aluminum facing. Paint hangers as specified above.
 4. Paint grilles, registers and diffusers which have factory applied primer, two coats semi-gloss enamel. Do not paint factory finished or aluminum units.
 5. Paint ductwork and metal work visible behind grilles, registers, diffusers, etc., flat black enamel, except where painted under Mechanical Division.
 6. Apply two coats of "Bitumastic Super-Service Black" as manufactured by Koppers Company, Incorporated, or equal to all ductwork exposed to weather outside of the building.
- c. Painting of Electrical Items
1. Electrical apparatus, switchgear, lighting fixtures and equipment having a factory applied baked enamel finish is not to be painted. Touch-up painting of this equipment will be the responsibility of the electrical contractor.

d. Miscellaneous Painting for Electrical Items

1. Paint front of flush mounted electric panels and cabinets in finished areas to match adjacent wall surfaces.
2. Paint trim ring on all flush clocks to match adjacent wall surfaces or color to be selected by Architect/Engineer.
3. All electrical cabinets, outlets or similar devices in finished areas.
4. All of the above items will be furnished with manufacturer's grey prime coat.

e. Minimum Coating Thickness

1. Apply each material at not less than the manufacturer's recommended spreading rate to provide a total dry film of not less than 5.0 mils for the entire coating system of prime and finish coats for 3-coat work, unless otherwise specified.
2. Prime Coats
 - a. Apply a prime coat to material which is required to be painted or finished and which has not been prime coated by others.
 - b. Recoat primed and sealed walls and ceilings where there is evidence of suction spots or unsealed areas in first coat, to assure a finish coat with non-burn-through or other defects due to insufficient sealing.
3. Pigmented (Opaque) Finishes
 - a. Completely cover to provide an opaque, smooth surface of uniform finish, color, appearance and coverage. Cloudiness, spotting, holidays, laps, brush marks, runs, sags, ropiness or other surface imperfections will not be acceptable.

4. Transparent (Clear) Finishes

- a. Use multiple coats to produce glass-smooth film of even luster. Provide a finish free of laps, cloudiness, color irregularity, runs, brush marks, "Orange peel", nail holes, or other surface imperfections.
 - 1. Provide satin finish for final coats, unless otherwise indicated.

5. Completed Work

- a. Match approved samples for color, texture and coverage. Remove, refinish or repaint work not in compliance with specified requirements.

3.05. CLEAN-UP AND PROTECTION

A. Clean-Up

- 1. During the progress of the work remove from the project daily all discarded paint materials, rubbish, cans and rags.
- 2. Upon completion of painting work, clean all window glass and other paint-spattered surfaces. Remove spattered paint by proper methods of washing and scraping, using care not to scratch or otherwise damage finished surfaces.

B. Protection

- 1. Protect work of other trades, whether to be painted or not, against damage by painting and finishing work. Correct any damaged by cleaning, repairing or replacing and repainting as direct by the Architect/Engineer.
- 2. Provide "Wet Paint" signs as required to protect newly painted finishes. Remove temporary protective wrappings provided by others for protection of their work, after completion of painting operations.

END 09900

**MINIMUM WAGES FOR FEDERAL AND FEDERALLY
ASSISTED CONSTRUCTION CONTRACTS**

This project is funded, in part, with Federal-aid funds and, as such, is subject to the provisions of the Davis-Bacon Act of March 3, 1931, as amended (46 Sta. 1494, as amended, 40 U.S.C. 276a) and of other Federal statutes referred to in a 29 CFR Part 1, Appendix A, as well as such additional statutes as may from time to time be enacted containing provisions for the payment of wages determined to be prevailing by the Secretary of Labor in accordance with the Davis-Bacon Act and pursuant to the provisions of 29 CFR Part 1. The prevailing rates and fringe benefits shown in the General Wage Determination Decisions issued by the U.S. Department of Labor shall, in accordance with the provisions of the foregoing statutes, constitute the minimum wages payable on Federal and federally assisted construction projects to laborers and mechanics of the specified classes engaged on contract work of the character and in the localities described therein.

General Wage Determination Decisions, modifications and supersedes decisions thereto are to be used in accordance with the provisions of 29 CFR Parts 1 and 5. Accordingly, the applicable decision, together with any modifications issued, must be made a part of every contract for performance of the described work within the geographic area indicated as required by an applicable DBRA Federal prevailing wage law and 29 CFR Part 5. The wage rates and fringe benefits contained in the General Wage Determination Decision shall be the minimum paid by contractors and subcontractors to laborers and mechanics.

NOTICE

The most current **General Wage Determination Decisions** (wage rates) are available on the IDOT web site. They are located on the Letting and Bidding page at <http://www.dot.state.il.us/desenv/delett.html>.

In addition, ten (10) days prior to the letting, the applicable Federal wage rates will be e-mailed to subscribers. It is recommended that all contractors subscribe to the Federal Wage Rates List or the Contractor's Packet through IDOT's subscription service.

PLEASE NOTE: if you have already subscribed to the Contractor's Packet you will automatically receive the Federal Wage Rates.

The instructions for subscribing are at <http://www.dot.state.il.us/desenv/subsc.html>.

If you have any questions concerning the wage rates, please contact IDOT's Chief Contract Official at 217-782-7806.